

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: 17:42:30

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: Female

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_001

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
Bone	Femur	Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
Lung		Inflammation, Interstitial
Lymph node	Mandibular Lymph Node	Plasmacytosis
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_002

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Inflammation, Acute Focal
Heart	Myocardium Nos	Degeneration, Nos
Liver	Periportal	Cytoplasmic Vacuolization
Lung		Congestion, Acute
Uterus	Endometrial Gland	Hyperplasia, Cystic

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_003

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Eye	Retina	Atrophy, Focal
Liver		Cytoplasmic Change, Basophilic
	Centrilobular	Necrosis, Focal
Pituitary gland	Anterior Pituitary	Cyst, Multiple
Spleen	Red Pulp	Hematopoiesis
Uterus		Endometrial Stromal Polyp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_004

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Lung		Alveolar Macrophages
		Congestion, Acute
		Inflammation, Interstitial
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Thymus		Depletion, Lymphoid
Uterus	Endometrial Gland	Hyperplasia, Cystic

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_005

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lung		Aspiration, Foreign Body
		Edema, Nos
		Inflammation, Interstitial
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thyroid		Hyperplasia, C Cell
Uterus		Adenoma, Nos

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_006

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Lung

Edema, 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_007

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Lung		Congestion, Acute
		Edema, Nos
Mammary gland		Hyperplasia, Cystic
Trachea		Inflammation, Acute Focal

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_008

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
Bone	Femur	Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Pancreas	Acinus	Atrophy, Focal
		Dilatation, Ducts
Pituitary gland	Anterior Pituitary	Cyst, Hemorrhagic
	Anterior Pituitary	Hyperplasia, Focal
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_009

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hematopoiesis
		Hyperplasia, Focal
		Hyperplasia, Nodular
Lung		Congestion, Acute
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Hemorrhagic
Thyroid		Hyperplasia, C Cell
Uterus	Endometrial Gland	Hyperplasia, Cystic

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_010

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Eye	Retina	Atrophy, Focal
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lung		Congestion, Acute
Spleen	Red Pulp	Hematopoiesis
	Red Pulp	Hemosiderosis
Uterus		Endometrial Stromal Polyp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_011

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Granuloma, Nos
		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lung		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Spleen	Red Pulp	Fibrosis, Multifocal
Thymus		Depletion, Lymphoid
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Endometrial Gland	Hyperplasia, Cystic

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_012

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Bone
Heart
Liver
Lymph node
Spleen
Thymus
Thyroid
Urinary bladder
Uterus

Cortex Nos
Femur
Myocardium Nos

Mandibular Lymph Node
Red Pulp

Angiectasis
Osteosclerosis
Degeneration, Nos
Cytoplasmic Change, Basophilic
Plasmacytosis
Hematopoiesis
Depletion, Lymphoid
Hyperplasia, C Cell
Hyperplasia, Epithelial
Endometrial Stromal Polyp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_013

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lung		Inflammation, Active Chronic
Lymph node	Thymic Lymph Node	Hemosiderosis
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thymus		Depletion, Lymphoid
Uterus	Endometrial Gland	Hyperplasia, Cystic

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_014

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Lymphocytic Inflammatory Infiltrate
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic Hematopoiesis
	Bile Duct	Hyperplasia, Focal Inflammation, Granulomatous Focal
	Hepatic Sinusoid	Leukocytosis, Nos Fibroadenoma
Mammary gland		Cyst, Parovarian
Ovary		Cyst, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Lymphoid
Spleen		C-Cell Adenoma
Thyroid		Endometrial Stromal Polyp
Uterus		

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_015

TRT#: 1

SEX: Female

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		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung		Alveolar Macrophages
Lymph node	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Hyperplasia, Cystic
Ovary		Cyst, Parovarian
Pituitary gland	Anterior Pituitary	Cyst, Multiple
Spleen	Red Pulp	Hematopoiesis
Thyroid		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_016

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Lung		Congestion, Acute
		Edema, Nos
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hemosiderosis
Tongue		Squamous Cell Papilloma

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_017

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Necrosis, Focal
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
	Centrilobular	Necrosis, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Multiple
Thymus		Depletion, Lymphoid
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_018

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Brain	Cerebrum	Atrophy, Pressure
	Ventricle	Hydrocephalus, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
		Inflammation, Granulomatous Focal
Lung		Inflammation, Active Chronic
Mammary gland		Adenocarcinoma, Nos
		Hyperplasia, Cystic
Pancreas		Ectopia
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Hemorrhagic
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_019

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Liver	Periportal	Cytoplasmic Change, Basophilic Cytoplasmic Vacuolization
Lung		Squamous Cell Carcinoma, Uncertain Prim/Meta
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis
Thyroid		Hyperplasia, C 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_020

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Liver	Periportal	Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
Lung		Necrosis, Focal
Salivary gland	Submaxillary Gland Nos	Edema, Nos
		Necrosis, 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_021

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Lung		Congestion, Acute
Spleen	Red Pulp	Hematopoiesis
	Red Pulp	Hemosiderosis
Uterus		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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_022

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Heart

Myocardium Nos

Degeneration, Nos

Liver

Periportal

Cytoplasmic Vacuolization

Centrilobular

Necrosis, Focal

Unspecified

Abdomen

Fibrous Histiocytoma, Malignant

Multiple Organs Nos

Fibrous Histiocytoma, 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_023

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Ovary		Cyst, Parovarian
		Fibrosis, Multifocal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Inflammation, Granulomatous Focal
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Adenoma
		Follicular-Cell Adenoma

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_024

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Medulla
Myocardium Nos

Hyperplasia, Focal
Degeneration, Nos
Nephropathy
Pyelonephritis, Acute
Cytoplasmic Change, Basophilic
Fibroadenoma
Cyst, Multiple
Hematopoiesis
Hyperplasia, Epithelial
Fibrosis, Multifocal

Liver
Mammary gland
Pituitary gland
Spleen
Urinary bladder
Uterus

Anterior Pituitary
Red Pulp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_025

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Kidney

Nephropathy

Liver

Periportal

Cytoplasmic Vacuolization

Bile Duct

Hyperplasia, Focal

Mammary gland

Hyperplasia, Cystic

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

Uterus

Endometrial Stromal Polyp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_026

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Dosing Accident

HISTO:

OBSERVATIONS

Liver	Periportal	Cytoplasmic Vacuolization
Lung		Hyperplasia, Alveolar Epithelium
		Inflammation, Interstitial
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Unspecified	Mediastinum Nos	Inflammation, Acute Fibrinous
Uterus		Dilatation, 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_027

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Multiple
	Anterior Pituitary	Hyperplasia, Focal
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_028

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Bone	Femur	Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_029

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization Inflammation, Granulomatous Focal
Lung		Edema, Nos Inflammation, Interstitial
Pituitary gland	Anterior Pituitary	Necrosis, Focal 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_030

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Pituitary gland	Anterior Pituitary	Cyst, Multiple
Skin	Hip	Squamous Cell Carcinoma
Spleen	Red Pulp	Hematopoiesis
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Uterus	Endometrial 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_031

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Fibroadenoma
Ovary		Cyst, Follicular Nos
Pancreas	Acinus	Atrophy, Focal
Thymus		Depletion, Lymphoid
Uterus		Endometrial Stromal Polyp
	Endometrial 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_032

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Liver	Bile Duct	Hyperplasia, Focal
Lung		Metaplasia, Squamous
Lymph node	Mesenteric Lymph Node	Inflammation, Granulomatous Focal
Pituitary gland	Anterior Pituitary	Cyst, Multiple
Thymus		Depletion, Lymphoid
Unspecified	Multiple Organs Nos	Sarcoma, Nos, Uncertain Primary Or Meta
Uterus	Endometrial 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_033

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal Centrilobular	Cytoplasmic Vacuolization Necrosis, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary Anterior Pituitary	Adenoma, Nos Cyst, Multiple
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Hyperplasia, Focal
	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Endometrial 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_034

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Lung		Congestion, Acute
		Edema, Nos
		Inflammation, Interstitial
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Skin	Foot And Toe Nos	Basal-Cell Carcinoma
Spleen	Red Pulp	Hematopoiesis
Uterus		Endometrial Stromal Polyp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_035

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Splenic Vein	Thrombus, Mural
Eye	Retina	Atrophy, Focal
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
	Centrilobular	Necrosis, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Nos
Thymus		Depletion, Lymphoid
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_036

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Necrosis, Focal
Esophagus		Inflammation, Active Chronic
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Inflammation, Active Chronic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thymus		Depletion, Lymphoid
		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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_037

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Clitoral gland		Adenocarcinoma, Nos
		Inflammation, Active Chronic
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Fibroadenoma
Pituitary gland	Anterior Pituitary	Cyst, Multiple
Spleen	Red Pulp	Hematopoiesis
Uterus	Endometrial 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_038

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Mammary gland		Fibroadenoma
Pituitary gland	Anterior Pituitary	Cyst, Multiple
	Anterior Pituitary	Hyperplasia, Focal
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_039

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Lung		Congestion, Acute
		Edema, Nos
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Adenoma

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_040

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Harderian gland	Hardarian Gland	Hyperplasia, Epithelial
	Hardarian Gland	Inflammation, Chronic Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lung		C-Cell Carcinoma, Metastatic
		Hemorrhage
Lymph node	Mandibular Lymph Node	Plasmacytosis
Ovary		Cyst, Follicular Nos
Pancreas	Acinus	Atrophy, Focal
Spleen	Red Pulp	Hematopoiesis
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Carcinoma
		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp
	Endometrial 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_041

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
	Centrilobular	Necrosis, Focal
Ovary		Cyst, Follicular Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_042

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Dosing Accident

HISTO:

OBSERVATIONS

Heart	Epicardium	Inflammation, Acute Fibrinous
Liver	Periportal	Cytoplasmic Vacuolization
Lung	Pleura Nos	Inflammation, Acute Fibrinous

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_043

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Eye	Cornea	Inflammation, Active Chronic
	Cornea	Ulcer, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Hematopoiesis
		Inflammation, Granulomatous Focal
Lung		Hyperplasia, Alveolar Epithelium
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Hemorrhagic
Thyroid		Hyperplasia, C Cell
Uterus	Endometrial 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_044

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
Brain	Cerebrum	Atrophy, Pressure
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Multiple
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_045

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Necrosis, Focal
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
	Periportal	Necrosis, Focal
Lung		Congestion, Acute
		Edema, Nos
Stomach	Forestomach	Inflammation, Acute/Chronic
	Forestomach	Ulcer, Acute
Uterus		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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_046

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_047

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye	Retina	Atrophy, Focal
	Crystalline Lens	Cataract
Kidney	Cortex	Metamorphosis, Fatty
	Pelvis	Mineralization
		Nephropathy
Liver		Pyelonephritis, Acute
Ovary		Cytoplasmic Change, Basophilic
Pituitary gland	Anterior Pituitary	Cyst, Parovarian
	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Cyst, Multiple
Stomach	Forestomach	Hemosiderosis
	Forestomach	Inflammation, Acute/Chronic
Thymus		Ulcer, Chronic
Thyroid		Depletion, Lymphoid
Urinary bladder		Hyperplasia, C Cell
		Calculus, Gross Observation Only
		Hyperplasia, Epithelial
		Metaplasia, Squamous

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_048

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hemorrhage
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
Lung		Congestion, Acute
		Edema, Nos
Lymph node	Thymic Lymph Node	Hemorrhage
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_049

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Change, Basophilic Cytoplasmic Vacuolization Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Cystic
Ovary		Cyst, Follicular Nos
Pituitary gland	Anterior Pituitary	Adenoma, 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_050

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 075.0 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hemorrhage

Heart

Myocardium Nos

Degeneration, Nos

Liver

Bile Duct

Hyperplasia, Focal

Lung

Congestion, Acute

Edema, Nos

Lymph node

Mandibular Lymph Node

Hyperplasia, Lymphoid

Pancreas

Acinus

Atrophy, Focal

Pituitary gland

Anterior Pituitary

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_001

TRT#: 2

SEX: Female

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
		Inflammation, Granulomatous Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Multiple
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_002

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Multiple
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_003

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Thymus		Depletion, Lymphoid
Uterus		Dilatation, Nos
		Endometrial Stromal Polyp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_004

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain	Cerebrum	Atrophy, Pressure
Kidney		Nephropathy
Ovary		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thymus		Depletion, Lymphoid
Uterus		Dilatation, Nos
	Endometrial 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_005

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Medulla

Pheochromocytoma

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Focal

Inflammation, Granulomatous Focal

Lymph node

Mandibular Lymph Node

Plasmacytosis

Mammary gland

Fibroadenoma

Hyperplasia, Cystic

Ovary

Cyst, Parovarian

Pituitary gland

Anterior Pituitary

Adenoma, Nos

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_006

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Degeneration, Nos

Lung

Congestion, Acute

Thymus

Edema, Nos

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_007

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Pancreas		Inflammation, Active Chronic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Multiple
Thymus		Depletion, Lymphoid
Uterus		Endometrial Stromal Polyp
	Endometrial 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_008

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Brain	Cerebellum Nos	Hemorrhage
Eye	Retina	Atrophy, Focal
	Crystalline Lens	Cataract
	Cornea	Inflammation, Acute Focal
	Iris	Inflammation, Acute Focal
Liver	Periportal	Cytoplasmic Vacuolization
Lymph node	Mandibular Lymph Node	Plasmacytosis
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_009

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Brain	Cerebrum	Atrophy, Pressure
Intestine Large	Colon	Hyperplasia, Lymphoid
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Inflammation, Acute/Chronic
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Unspecified	Mediastinum Nos	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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_010

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Brain	Cerebrum	Atrophy, Pressure
Clitoral gland		Adenoma, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Cortex	Cyst, Nos
		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lymph node	Thymic Lymph Node	Inflammation, Chronic Focal
	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Hemorrhagic
Spleen	Red Pulp	Hematopoiesis
Thyroid		C-Cell Adenoma
Urinary bladder		Inflammation, Acute Focal
Uterus		Dilatation, Nos
	Endometrial 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_011

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone marrow		Hyperplasia, Granulocytic
Clitoral gland		Adenocarcinoma, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Mammary gland		Adenoma, Nos
		Hyperplasia, Cystic
Ovary		Cyst, Parovarian
Pancreas	Acinus	Atrophy, Focal
	Islets	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_012

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Brain	Cerebrum	Atrophy, Pressure
	Ventricle	Hydrocephalus, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Mammary gland		Adenocarcinoma, Nos
		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_013

TRT#: 2

SEX: Female

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
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Uterus		Dilatation, Nos
		Endometrial Stromal Polyp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_014

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Eye	Retina	Atrophy, Focal
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Multiple
	Anterior Pituitary	Hyperplasia, Focal
Thymus		Depletion, Lymphoid
Thyroid		Cyst, Embryonal Duct
Uterus		Endometrial Stromal Polyp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_015

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Bone	Femur	Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Lung	Pleura Nos	Fibrosis, Multifocal
	Pleura Nos	Inflammation, Acute/Chronic
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Thymus		Depletion, Lymphoid
Uterus		Endometrial Stromal Polyp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_016

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Nephropathy

Mammary gland

Fibroadenoma

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Anterior Pituitary

Hemorrhage

Spleen

Red Pulp

Hematopoiesis

Thymus

Depletion, Lymphoid

Unspecified

Flank

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_017

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Cortex Nos

Metamorphosis, Fatty

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Angiectasis

Periportal

Cytoplasmic Change, Basophilic

Cytoplasmic Vacuolization

Inflammation, Granulomatous Focal

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Thymus

Depletion, Lymphoid

Thyroid

Hyperplasia, C Cell

Uterus

Endometrial Stromal Polyp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_018

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Mammary gland		Fibroadenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Adenoma

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_019

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Heart

Cortex Nos

Metamorphosis, Fatty

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Nephropathy

Lung

Cytoplasmic Change, Basophilic

Pituitary gland

Anterior Pituitary

Hemorrhage

Thyroid

Cyst, Multiple

Uterus

Hyperplasia, C Cell

Dilatation, Nos

Endometrial Stromal Polyp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_020

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Cyst, Hemorrhagic
	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Hematopoiesis
		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Dilatation, Nos
		Endometrial Stromal Polyp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_021

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone	Cortex Of Bone	Cyst, Nos
Eye	Retina	Atrophy, Focal
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Liver	Periportal	Cytoplasmic Vacuolization
	Centrilobular	Necrosis, Focal
Lung		Squamous Cell Carcinoma
	Parietal Pleura	Squamous Cell Carcinoma, Invasive
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Intermedia	Hyperplasia, Epithelial
Spleen	Red Pulp	Hematopoiesis

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_022

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Brain	Cerebrum	Atrophy, Pressure
	Cerebrum	Carcinoma, Nos, Invasive
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Carcinoma, Nos
Spleen	Red Pulp	Fibrosis, Multifocal
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Uterus		Dilatation, Nos
		Endometrial Stromal Polyp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_023

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Adenoma

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_024

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Jejunum	Hyperplasia, Lymphoid
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
	Centrilobular	Necrosis, Focal
Lymph node	Mandibular Lymph Node	Hemorrhage
	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Focal
Thymus		Depletion, Lymphoid
Unspecified	Eyelid	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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_025

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thyroid		C-Cell Adenoma
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_026

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla Medulla	Metamorphosis, Fatty Pheochromocytoma Pheochromocytoma, Malignant
Heart	Left Atrium Nos	Inflammation, Chronic Focal
Kidney		Nephropathy
Lung		Pheochromocytoma, Metastatic
Ovary		Atrophy, Nos
Pituitary gland	Anterior Pituitary Anterior Pituitary	Cyst, Multiple Hyperplasia, Focal
Spleen	Red Pulp	Hematopoiesis
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_027

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Lung		Inflammation, Granulomatous Focal
Mammary gland		Fibroadenoma
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Multiple
	Anterior Pituitary	Hyperplasia, Focal
Thyroid		Hyperplasia, C Cell
Uterus	Cervix Uteri	Diverticulum
	Endometrial 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_028

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hemorrhage
Blood vessel	Aortic Tunica Adventitia	Hemorrhage
Esophagus		Inflammation, Acute Necrotizing
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
Lung		Inflammation, Interstitial
Mammary gland		Hyperplasia, Cystic
Ovary		Cyst, Parovarian
Spleen	Red Pulp	Pigmentation, Nos
Stomach	Pylorus	Adenocarcinoma, Nos
	Forestomach	Ulcer, Acute
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_029

TRT#: 2

SEX: Female

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
Lung		Hyperplasia, Alveolar Epithelium
Lymph node	Mandibular Lymph Node	Plasmacytosis
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Multiple
	Anterior Pituitary	Hyperplasia, Focal
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Adenoma

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_030

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
Bone	Femur	Osteosclerosis
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Neoplastic Nodule
Lung		Alveolar/Bronchiolar Adenoma
Lymph node	Thymic Lymph Node	Inflammation, Chronic Focal
Mammary gland		Hyperplasia, Cystic
Ovary		Cyst, Follicular Nos
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Hemorrhagic
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Uterus	Endometrial 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_031

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_032

TRT#: 2

SEX: Female

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	Periportal	Cytoplasmic Vacuolization
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Hyperplasia, Epithelial
	Forestomach	Ulcer, 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_033

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Mitral Valve Nos	Endocarditis, Bacterial
	Myocardium Nos	Inflammation, Acute/Chronic
	Atrium	Thrombus, Mural
Kidney	Tubule	Degeneration, Nos
	Pelvis/Mucosa	Hyperplasia, Epithelial
Liver		Cytoplasmic Change, Basophilic
	Centrilobular	Necrosis, Focal
Lung		Edema, Nos
		Inflammation, Interstitial
Pituitary gland	Anterior Pituitary	Cyst, Multiple
Spleen	Red Pulp	Hematopoiesis
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_034

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_035

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Bone	Femur	Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Cortex	Cyst, Nos
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
	Centrilobular	Necrosis, Focal
Lymph node	Thymic Lymph Node	Inflammation, Granulomatous Focal
	Mandibular Lymph Node	Lymphangiectasis
Mammary gland		Adenocarcinoma, Nos
		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Multiple
	Anterior Pituitary	Hyperplasia, Focal
Spleen	Red Pulp	Hematopoiesis
Thymus		Depletion, Lymphoid
		Dilatation, Ducts
Thyroid		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_036

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Lymph node	Mandibular Lymph Node	Hemorrhage
Ovary		Cyst, Follicular Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_037

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Foreign Body, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Jejunum	Hyperplasia, Lymphoid
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Change, Basophilic
		Cytoplasmic Vacuolization
Lung		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Hemorrhage
Mammary gland		Fibroadenoma
Ovary		Cyst, Follicular Nos
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thymus		Depletion, Lymphoid
Uterus		Dilatation, Nos
		Hemorrhage, 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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_038

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
		Periarteritis
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
		Inflammation, Chronic Focal
		Periarteritis
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Multiple
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Adenoma
Uterus		Endometrial Stromal Polyp

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: 17:42:30

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_039

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Hyperplasia, Cystic
Ovary		Atrophy, Nos
Pancreas	Acinus	Atrophy, Focal
		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Uterus	Endometrial 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_040

TRT#: 2

SEX: Female

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
Lymph node	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
		Dilatation, Ducts
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Adenoma

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_041

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lymph node	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Hemorrhagic
Spleen	Red Pulp	Hematopoiesis
Thymus		Depletion, Lymphoid
Uterus		Hemorrhage, 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_042

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye	Lacrimal Gland Lacrimal Gland	Atrophy, Focal Hyperplasia, Focal
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Pituitary gland	Anterior Pituitary Anterior Pituitary Anterior Pituitary	Adenoma, Nos Cyst, Multiple Hyperplasia, Focal
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_043

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Bone	Femur	Osteosclerosis
Brain	Cerebrum	Atrophy, Pressure
	Ventricle	Hydrocephalus, Nos
Intestine Small	Mesentery Nos	Inflammation, Granulomatous Focal
Kidney	Tubule	Degeneration, Nos
		Nephropathy
Lung		Alveolar Macrophages
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_044

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
Bone	Femur	Osteosclerosis
Esophagus	Muscularis	Hemorrhage
Heart	Epicardium	Inflammation, Acute/Chronic
	Myocardium Nos	Inflammation, Acute/Chronic
Intestine Small	Mesentery Nos	Inflammation, Granulomatous Focal
Liver		Inflammation, Granulomatous Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
Unspecified	Mediastinum Nos	Hemorrhage
	Mediastinum Nos	Inflammation, Acute Fibrinous

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_045

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Angiectasis Hyperplasia, Focal
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lung		Hyperplasia, Alveolar Epithelium
		Inflammation, Interstitial
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Mammary gland		Hyperplasia, Cystic
Ovary		Cyst, Parovarian
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hemosiderosis
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Trachea		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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_046

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos	Hypertrophy, Nos Metamorphosis, Fatty
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Ovary		Cyst, Parovarian
Pancreas	Acinus	Atrophy, Focal Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary Anterior Pituitary	Adenoma, Nos Cyst, Nos
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_047

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Necrosis, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Cyst, Multiple
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Inflammation, Active Chronic
Uterus	Cervix Uteri	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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_048

TRT#: 2

SEX: Female

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
		Inflammation, Granulomatous Focal
Lung		Congestion, Acute
		Hyperplasia, Alveolar Epithelium
Ovary		Granulosa-Cell Tumor
Pituitary gland	Anterior Pituitary	Cyst, Multiple
	Anterior Pituitary	Hyperplasia, Focal
Thymus		Depletion, Lymphoid
		Dilatation, Ducts
Thyroid		Hyperplasia, C Cell
Unspecified	Thorax Nos	Lipoma
Uterus		Endometrial Stromal Polyp

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_049

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Bone

Femur

Osteosclerosis

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Periportal

Cytoplasmic Vacuolization

Bile Duct

Hyperplasia, Focal

Lymph node

Mandibular Lymph Node

Plasmacytosis

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_050

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 037.5 MG/10KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_001

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Angiectasis
Pituitary gland	Anterior Pituitary	Cyst, Multiple
Thymus		Depletion, Lymphoid
Uterus		Endometrial Stromal Polyp

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_002

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Ovarian Vein	Dilatation, Nos
Clitoral gland		Inflammation, Chronic Focal
Harderian gland	Harderian Gland	Inflammation, Chronic Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
Liver		Cytoplasmic Change, Basophilic
Lymph node	Mandibular Lymph Node	Plasmacytosis
	Mesenteric Lymph Node	Plasmacytosis
	Thymic Lymph Node	Plasmacytosis
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_003

TRT#: 3
DOSE: 0

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Multiple
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_004

TRT#: 3
DOSE: 0

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_005

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Liver		Clear-Cell Change Cytoplasmic Change, Basophilic Inflammation, Granulomatous Focal
Lymph node	Pancreatic Lymph Node	Lymphangiectasis
Mammary gland		Fibroadenoma
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary Anterior Pituitary	Cyst, Multiple Hyperplasia, Focal
Thyroid		Cyst, Follicular Nos Follicular-Cell Adenoma
Uterus	Endometrial 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_006

TRT#: 3

DOSE: 0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thymus		Depletion, Lymphoid
Uterus		Endometrial Stromal Polyp
	Endometrial 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_007

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Bone marrow		Hyperplasia, Reticulum Cell
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Lung		Congestion, Acute
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Skin	Shoulder	Keratoacanthoma
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_008

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Clitoral gland		Adenocarcinoma, Nos
Liver	Centrilobular	Necrosis, Focal
Mammary gland		Galactocele
		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
Spleen	Red Pulp	Hematopoiesis

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_009

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Bone	Femur	Osteosclerosis
Clitoral gland		Abscess, Chronic
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung		Inflammation, Granulomatous Focal
Ovary		Cyst, Parovarian
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_010

TRT#: 3
DOSE: 0

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Hyperplasia, Nodular
		Inflammation, Granulomatous Focal
Pancreas	Acinus	Atrophy, Focal
		Dilatation, Ducts
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thyroid		C-Cell Adenoma
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_011

TRT#: 3
DOSE: 0

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Lung		Abscess, Nos
		Inflammation, Interstitial
Pancreas	Acinus	Atrophy, Focal
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp
	Endometrial Gland	Hyperplasia, Cystic
	Broad Ligament	Leiomyosarcoma

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_012

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Bone	Femur	Osteosclerosis
Eye	Retina	Atrophy, Focal
	Crystalline Lens	Cataract
	Cornea	Inflammation, Chronic Focal
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lung		Alveolar Macrophages
Lymph node	Mandibular Lymph Node	Plasmacytosis
Pituitary gland	Anterior Pituitary	Cyst, Multiple
Spleen	Red Pulp	Hematopoiesis
Thymus		Depletion, Lymphoid
Thyroid		Follicular-Cell Adenoma

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_013

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Lung		Congestion, Acute
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen		Depletion, Lymphoid
Thymus		Depletion, Lymphoid
Unspecified	Face	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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_014

TRT#: 3
DOSE: 0

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Liver		Inflammation, Granulomatous Focal
Lung		Alveolar Macrophages
		Hyperplasia, Alveolar Epithelium
Pituitary gland	Anterior Pituitary	Cyst, Multiple
	Anterior Pituitary	Hyperplasia, Focal
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_015

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Brain	Cerebrum	Atrophy, Pressure
	Ventricle	Hydrocephalus, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Mammary gland		Adenocarcinoma, Nos
		Fibroadenoma
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thyroid		Hyperplasia, C Cell
Uterus	Endometrial 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_016

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Brain

Cerebrum

Atrophy, Pressure

Ventricle

Hydrocephalus, Nos

Cerebrum

Necrosis, Hemorrhagic

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Lung

Inflammation, Granulomatous Focal

Mammary gland

Hyperplasia, Cystic

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Thymus

Depletion, Lymphoid

Thyroid

Hyperplasia, C Cell

Uterus

Endometrial Stromal Polyp

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_017

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Bone
Heart
Kidney
Liver

Cortex Nos
Femur
Myocardium Nos

Focal Cellular Change
Osteosclerosis
Degeneration, Nos
Nephropathy
Clear-Cell Change
Cytoplasmic Change, Basophilic
Hyperplasia, Focal
Inflammation, Granulomatous Focal
Hemorrhage
Fibroadenoma
Hyperplasia, Focal
Depletion, Lymphoid
Hyperplasia, C Cell
Endometrial Stromal Polyp

Bile Duct

Mandibular Lymph Node

Lymph node
Mammary gland
Parathyroid gland
Thymus
Thyroid
Uterus

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_018

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Lung		Hyperplasia, Alveolar Epithelium
Mammary gland		Hyperplasia, Cystic
Ovary		Granulosa-Cell Tumor
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_019

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Reticulum Cell
Brain	Meninges	Hematopoiesis
Harderian gland	Harderian Gland	Inflammation, Chronic Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Mammary gland		Fibroadenoma
Thyroid		C-Cell Adenoma

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_020

TRT#: 3
DOSE: 0

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Brain	Cerebrum	Atrophy, Pressure
Clitoral gland		Adenocarcinoma, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Alveolar Macrophages
Lymph node	Thymic Lymph Node	Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Adenoma
Uterus	Endometrial 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_021

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Uterus	Cervix Uteri	Acanthosis Endometrial Stromal Polyp
	Cervix Uteri	Hyperkeratosis
	Cervix Uteri	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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_022

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone	Femur	Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Thyroid		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_023

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain	Medulla Oblongata Nos	Hemorrhage
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Mammary gland		Fibroadenoma
Pituitary gland	Anterior Pituitary	Adenoma, 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_024

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Cystic
Ovary		Cyst, Follicular Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Glandular Stomach	Inflammation, Active Chronic
	Forestomach	Inflammation, Acute/Chronic
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Uterus		Dilatation, 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_025

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
Brain	Meninges	Hemorrhage
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Multiple
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Uterus		Dilatation, 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_026

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Lung		Inflammation, Granulomatous Focal
Mammary gland		Fibroadenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_027

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Necrosis, Focal
Brain	Meninges	Inflammation, Acute Focal
	Cerebrum	Inflammation, Acute Necrotizing
Heart	Epicardium	Inflammation, Chronic Suppurative
Kidney	Tubule	Necrosis, Focal
Liver	Periportal	Cytoplasmic Vacuolization
Lung	Pleura Nos	Inflammation, Acute Necrotizing
Pituitary gland	Anterior Pituitary	Cyst, Multiple
Thyroid		Hyperplasia, C Cell
Unspecified	Mediastinum Nos	Inflammation, Chronic Suppurative

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_028

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Degeneration, Nos Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Cytoplasmic Change, Basophilic Hyperplasia, Focal Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary Anterior Pituitary	Cyst, Multiple Hyperplasia, Focal
Thymus		Depletion, Lymphoid
Thyroid		Follicular-Cell Adenoma
Uterus		Endometrial Stromal Polyp

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_029

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Pancreas		Dilatation, Ducts
Pituitary gland	Anterior Pituitary	Adenoma, Nos
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_030

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland		Adenocarcinoma, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
Lymph node	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Adenoma, Nos
		Fibroadenoma
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Multiple
	Anterior Pituitary	Hyperplasia, Focal
Thyroid		Hyperplasia, C Cell
Unspecified	Abdomen	Fibroma
Uterus	Endometrial 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_031

TRT#: 3

SEX: Female

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
		Inflammation, Granulomatous Focal
Lung		Hyperplasia, Alveolar Epithelium
		Inflammation, Granulomatous Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_032

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney
Liver

Cortex Nos
Tubule

Focal Cellular Change
Degeneration, Nos
Cytoplasmic Change, Basophilic
Hematopoiesis

Lymph node
Pancreas
Pituitary gland
Thymus
Thyroid

Mandibular Lymph Node
Acinus
Anterior Pituitary

Angiectasis
Atrophy, Focal
Hyperplasia, Focal
Depletion, Lymphoid
C-Cell Adenoma

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_033

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Colon

Parasitism

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Cytoplasmic Change, Eosinophilic

Pancreas

Dilatation, Ducts

Focal Cellular Change

Pituitary gland

Anterior Pituitary

Hyperplasia, Focal

Thymus

Depletion, Lymphoid

Thyroid

Hyperplasia, C Cell

Uterus

Cervix Uteri

Dilatation, 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_034

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Hyperplasia, Nodular
Lymph node	Mandibular Lymph Node	Plasmacytosis
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Multiple
Uterus		Endometrial Stromal Polyp

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_035

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Multiple
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Adenoma
Uterus	Endometrial Gland	Adenomatous Polyp, 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_036

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney
Liver

Cortex Nos

Metamorphosis, Fatty
Nephropathy
Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Mammary gland
Pituitary gland
Stomach
Thymus
Uterus

Anterior Pituitary

Fibroadenoma

Forestomach

Adenoma, Nos

Edema, Nos

Endometrial Gland

Depletion, Lymphoid

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_037

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Brain	Meninges	Hemorrhage
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Multiple
	Anterior Pituitary	Hyperplasia, Focal
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Dilatation, Nos
	Endometrial 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_038

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Alveolar Macrophages
Lymph node	Mandibular Lymph Node	Hemorrhage
	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Multiple
	Anterior Pituitary	Hyperplasia, Focal
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Unspecified	Mediastinum Nos	Inflammation, Granulomatous Focal
Urinary bladder		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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_039

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Dosing Accident

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Angiectasis
Brain	Meninges	Inflammation, Acute Focal
Esophagus		Necrosis, Focal
Heart	Myocardium Nos	Inflammation, Acute/Chronic
	Epicardium	Inflammation, Chronic Suppurative
Kidney	Cortex	Cyst, Nos
		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
		Inflammation, Granulomatous
Lung	Pleura Nos	Inflammation, Acute/Chronic
		Inflammation, Granulomatous Focal
Ovary		Cyst, Parovarian
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Multiple
Thyroid		Hyperplasia, C Cell
Tongue		Squamous Cell Papilloma
Unspecified	Mediastinum Nos	Inflammation, Chronic 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_040

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lymph node	Thymic Lymph Node	Inflammation, Granulomatous Focal
	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Adenoma, Nos
		Fibroadenoma
		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_041

TRT#: 3
DOSE: 0

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Capsule	Hyperplasia, Focal
	Cortex Nos	Hyperplasia, Focal
Bone	Femur	Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thymus		Depletion, Lymphoid
Thyroid		C-Cell Carcinoma
		Hyperplasia, C Cell
Uterus		Dilatation, Nos
	Endometrial 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_042

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung		Congestion, Acute
		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Cystic
Ovary		Congestion, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Uterus		Hemorrhage, 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_043

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic Inflammation, Granulomatous Focal
Lung		Lymphocytic Inflammatory Infiltrate
Lymph node	Mandibular Lymph Node	Inflammation, Chronic Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Uterus	Endometrial Gland	Hyperplasia, Cystic 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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_044

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Cytoplasmic Change, Basophilic Hyperplasia, Focal Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Multiple
	Anterior Pituitary	Hyperplasia, Focal
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_045

TRT#: 3

DOSE: 0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Pituitary gland	Anterior Pituitary Anterior Pituitary	Cyst, Multiple Hyperplasia, Focal
Thymus		Depletion, Lymphoid
Uterus		Endometrial Stromal Polyp

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_046

TRT#: 3
DOSE: 0

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Brain	Cerebrum	Atrophy, Pressure
Kidney		Nephropathy
Liver		Inflammation, Granulomatous Focal
Lung		Aspiration, Foreign Body
		Inflammation, Interstitial
Lymph node	Mandibular Lymph Node	Hemorrhage
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hemosiderosis
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_047

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hemorrhage
	Anterior Pituitary	Hyperplasia, Focal
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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_048

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Bone	Femur	Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
	Atrium	Thrombus, Mural
Kidney	Tubule	Necrosis, Focal
		Nephropathy
Liver	Centrilobular	Necrosis, Focal
Lung		Inflammation, Interstitial
Lymph node	Mandibular Lymph Node	Angiectasis
	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Fibroadenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Glandular Stomach	Necrosis, Focal
Urinary bladder		Hyperplasia, Epithelial
Zymbal gland		Carcinoma, Nos

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_049

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Myocardium Nos

Bile Duct

Lung

Lymph node

Pituitary gland

Uterus

Mandibular Lymph Node

Anterior Pituitary

Endometrial Gland

Cortical Adenoma

Degeneration, Nos

Nephropathy

Cytoplasmic Change, Basophilic

Hyperplasia, Focal

Inflammation, Granulomatous Focal

Inflammation, Granulomatous Focal

Plasmacytosis

Cyst, Multiple

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: 17:42:31

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_050

TRT#: 3
DOSE: 0

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****