

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

C Number: C54740

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Male

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_001

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Eye

Cataract

Retina

Degeneration, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Testis

Neoplastic Nodule

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Mineralization

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_002

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Brain		Spongiosis, Status
Heart	Myocardium Nos	Fibrosis
Kidney	Papilla	Mineralization
		Nephropathy
Liver		Angiectasis
Lung		Inflammation, Interstitial
Prostate		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_003

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye

Retina

Cataract

Kidney

Papilla

Degeneration, Nos

Liver

Mineralization

Nephropathy

Angiectasis

Skin

Bile Duct

Fibrosis, Cholangio

Testis

Chest

Hyperplasia, Nos

Trachea

Squamous Cell Papilloma

Interstitial-Cell Tumor

Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_004

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Hemorrhage
		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
		Inflammation, Multifocal
		Neoplastic Nodule
Pancreas		Focal Cellular Change
Prostate		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_005

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart
Intestine Large
Kidney
Lung

Myocardium Nos
Colon

Fibrosis
Parasitism
Nephropathy
Congestion, Nos
Edema, Nos
Interstitial-Cell Tumor
Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_006

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Kidney
Liver

Lymph node
Mammary gland
Testis

Pulmonary Artery Nos

Bile Duct
Mediastinal Lymph Node

Mineralization
Nephropathy
Fibrosis, Cholangio
Hyperplasia, Nos
Hemorrhage
Dilatation, Ducts
Interstitial-Cell Tumor
Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_007

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart
Intestine Large
Lung
Testis

Myocardium Nos
Colon

Fibrosis
Parasitism
Congestion, Nos
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_008

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Bone	Cartilage,Nos	Necrosis, Nos
Heart	Atrium	Fibrosis
	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Parathyroid gland		Adenoma, Nos
Pituitary gland	Anterior Pituitary	Focal Cellular Change
	Anterior Pituitary	Hemosiderosis
Prostate		Inflammation, Suppurative
Testis		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_009

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Bone

Cartilage,Nos

Necrosis, Nos

Liver

Angiectasis

Bile Duct

Hyperplasia, Nos

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_010

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Fibrosis, Cholangio

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_011

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Testis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_012

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Heart
Kidney

Pulmonary Artery Nos
Myocardium Nos

Mineralization
Fibrosis
Hemorrhage
Nephropathy
Hyperplasia, Nos
Focal Cellular Change
Adenoma, Nos
Hyperplasia, Epithelial
Interstitial-Cell Tumor
Leukemia, Mononuclear Cell

Liver
Pituitary gland
Preputial gland
Prostate
Testis
Unspecified

Bile Duct
Anterior Pituitary

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_013

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lung

Lymph node

Prostate

Testis

Thymus

Myocardium Nos

Bile Duct

Alveoli

Mediastinal Lymph Node

Angiectasis

Fibrosis

Hemorrhage

Nephropathy

Hyperplasia, Nos

Histiocytosis

Hemorrhage

Hyperplasia, Epithelial

Interstitial-Cell Tumor

Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_014

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Testis

Interstitial-Cell Tumor

Thymus

Persistent Embryonic Structure

Thyroid

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_015

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Interstitial
Lymph node	Mediastinal Lymph Node	Hemorrhage
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Focal Cellular Change
Prostate		Inflammation, Chronic
Skin	Chest	Squamous Cell Papilloma
Testis		Interstitial-Cell Tumor
		Mineralization
Unspecified	Abdominal Cavity	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_016

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Cytoplasmic Change, Nos
		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Focal Cellular Change
Testis		Interstitial-Cell Tumor
		Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_017

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone	Cartilage,Nos	Necrosis, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Testis		Interstitial-Cell Tumor
Trachea		Inflammation, Acute
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_018

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis

Pancreas

Acinus

Atrophy, Nos

Prostate

Hyperplasia, Epithelial

Spleen

Necrosis, Nos

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_019

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Nos
		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Mammary gland		Fibroadenoma
Preputial gland		Dilatation, Ducts
		Inflammation, Suppurative
Testis		Hypospermatogenesis
		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_020

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye	Sclera	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Prostate		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_021

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone	Cartilage,Nos	Necrosis, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Skin		Cyst, Epidermal Inclusion
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_022

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Hemorrhage
Liver	Bile Duct	Nephropathy
		Angiectasis
		Fibrosis, Cholangio
Prostate	Multiple Organs Nos	Hyperplasia, Nos
Testis		Hyperplasia, Epithelial
Thymus		Interstitial-Cell Tumor
Unspecified		Persistent Embryonic Structure
		Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_023

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Esophagus	Periesophageal Tissue	Inflammation, Suppurative
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_024

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone	Cartilage,Nos	Necrosis, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Prostate		Adenoma, Nos
		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Abdominal Cavity	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_025

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Bone	Cartilage,Nos	Necrosis, Nos
Eye	Sclera	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
	Bile Duct	Fibrosis, Cholangio
		Hyperplasia, Nos
Testis		Necrosis, Focal
		Interstitial-Cell Tumor
		Mineralization
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_026

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Eye	Sclera	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney		Hemorrhage
		Nephropathy
Liver		Angiectasis
		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lymph node	Mediastinal Lymph Node	Hemorrhage
Prostate		Hyperplasia, Epithelial
		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure
Thyroid		Cyst, Ultimobranchial
		Cystic Follicles

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_027

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Angiectasis

Blood vessel

Pulmonary Artery Nos

Pheochromocytoma

Kidney

Mineralization

Liver

Bile Duct

Nephropathy

Testis

Hyperplasia, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_028

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Heart
Kidney
Liver

Pulmonary Artery Nos
Myocardium Nos

Mineralization
Fibrosis
Nephropathy
Cytoplasmic Change, Ground-Glass
Fibrosis, Cholangio
Hyperplasia, Nos
Hemorrhage
Interstitial-Cell Tumor
Mineralization
Persistent Embryonic Structure

Lymph node
Testis

Bile Duct
Mediastinal Lymph Node

Thymus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_029

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Skin	Lip Nos	Squamous Cell Papilloma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_030

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland		Inflammation, Suppurative
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lung		Edema, Nos
Pancreas	Acinus	Atrophy, Nos
Testis		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_031

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
	Atrium	Thrombosis, Nos
Kidney		Nephropathy
Lung		Congestion, Nos
		Edema, Nos
Mammary gland		Hyperplasia, Focal
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_032

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Focal Cellular Change Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Eye		Cataract
	Retina	Degeneration, Nos
	Sclera	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Fibrosis, Cholangio
		Fibrosis, Focal
	Bile Duct	Hyperplasia, Nos
Parathyroid gland		Hyperplasia, Nos
Skin	Back	Cyst, Epidermal Inclusion
Spleen		Fibrosis
Testis		Interstitial-Cell Tumor
		Mineralization
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_033

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye

Retina

Cataract

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Fibrosis

Liver

Nephropathy

Bile Duct

Angiectasis

Testis

Hyperplasia, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_034

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Accidentally Killed

HISTO:

OBSERVATIONS

Brain	Meninges	Hemorrhage
Eye		Hemorrhage
Heart	Myocardium Nos	Degeneration, Nos
Liver	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
Pancreas	Acinus	Atrophy, Nos
Testis		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_035

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
		Transitional-Cell Carcinoma
Liver		Angiectasis
		Fibrosis, Cholangio
Lung		Transitional-Cell Carcinoma, Metastatic
Lymph node	Mediastinal Lymph Node	Transitional-Cell Carcinoma, Metastatic
Pancreas		Transitional-Cell Carcinoma, Invasive
Prostate		Hyperplasia, Epithelial
		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Abdominal Cavity	Transitional-Cell Carcinoma, Invasive

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_036

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Bone	Cartilage,Nos	Necrosis, Nos
Epididymis		Inflammation, Chronic
Kidney		Hemorrhage
		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lung		Alveolar/Bronchiolar Adenoma
Prostate		Inflammation, Chronic
Skin	Chest	Squamous Cell Papilloma
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_037

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Mammary gland		Fibroadenoma
Pancreas	Acinus	Atrophy, Nos
Testis		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_038

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_039

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Focal Cellular Change

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Angiectasis

Bile Duct

Hyperplasia, Nos

Lung

Edema, Nos

Testis

Hypospermatogenesis

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014
Time Report Requested: 12:29:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_040

TRT#: 1
DOSE: 600.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Hemorrhage
		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Degeneration, Cystic
Pancreas	Acinus	Atrophy, Nos
Preputial gland		Carcinoma, Nos
Testis		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure
Unspecified	Chest	Fibroma
	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Abdominal Cavity	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_041

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Liver

Metamorphosis, Fatty

Prostate

Inflammation, Chronic

Stomach

Fundus

Erosion

Testis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_042

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014
Time Report Requested: 12:29:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_043

TRT#: 1
DOSE: 600.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney		Hemorrhage
	Papilla	Mineralization
Liver		Nephropathy
		Angiectasis
		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Focal Cellular Change
Testis		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_044

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Preputial gland		Adenoma, Nos
Prostate		Hyperplasia, Epithelial
		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
		Mineralization
Thyroid		Cystic Follicles
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_045

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Eye	Sclera	Mineralization
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
	Centrilobular	Necrosis, Nos
Lung		Inflammation, Interstitial
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_046

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Fibrosis, Cholangio

Bile Duct

Hyperplasia, Nos

Lung

Congestion, Nos

Pancreas

Focal Cellular Change

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_047

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Intestine Small

Jejunum

Adenocarcinoma, Nos

Kidney

Nephropathy

Liver

Neoplastic Nodule

Lymph node

Mesenteric Lymph Node

Degeneration, Cystic

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_048

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Eye	Sclera	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
	Centrilobular	Necrosis, Nos
Lung		Edema, Nos
Lymph node	Mediastinal Lymph Node	Inflammation, Suppurative
Salivary gland		Inflammation, Chronic
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_049

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Liver

Preputial gland

Prostate

Testis

Thymus

Unspecified

Bile Duct

Multiple Organs Nos

Nephropathy

Hyperplasia, Nos

Hyperplasia, Epithelial

Hyperplasia, Epithelial

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Persistent Embryonic Structure

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_050

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Prostate

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_001

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Papilla

Mineralization

Liver

Bile Duct

Nephropathy

Testis

Hyperplasia, Nos

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_002

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney	Papilla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Ground-Glass
		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Focal Cellular Change
Preputial gland		Abscess, Nos
Prostate		Hyperplasia, Epithelial
Skin	Tail	Hyperkeratosis
Testis		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_003

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis

Kidney

Papilla

Mineralization

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Testis

Interstitial-Cell Tumor

Thymus

Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_004

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Blood vessel

Heart

Kidney

Liver

Pituitary gland

Prostate

Testis

Thymus

Thyroid

Pulmonary Artery Nos

Myocardium Nos

Papilla

Bile Duct

Anterior Pituitary

Pheochromocytoma

Mineralization

Fibrosis

Mineralization

Nephropathy

Hyperplasia, Nos

Adenoma, Nos

Hyperplasia, Epithelial

Interstitial-Cell Tumor

Persistent Embryonic Structure

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_005

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney	Papilla	Mineralization
		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Angiectasis
Prostate		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_006

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Bone

Brain

Heart

Kidney

Liver

Mammary gland

Testis

Unspecified

Cartilage,Nos

Cerebellum Nos

Myocardium Nos

Bile Duct

Multiple Organs Nos

Pheochromocytoma

Necrosis, Nos

Granular-Cell Tumor, Nos

Hemorrhage

Fibrosis

Nephropathy

Hyperplasia, Nos

Fibroadenoma

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_007

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Blood vessel

Heart

Kidney

Liver

Pancreas

Testis

Thymus

Thyroid

Pulmonary Artery Nos

Epicardium

Epicardium

Papilla

Bile Duct

Acinus

Lipoidosis

Mineralization

Foreign Material, Nos

Inflammation, Granulomatous

Mineralization

Nephropathy

Fibrosis, Cholangio

Hyperplasia, Nos

Atrophy, Nos

Hypospermatogenesis

Interstitial-Cell Tumor

Persistent Embryonic Structure

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_008

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone	Cartilage,Nos	Necrosis, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Metamorphosis, Fatty
Pituitary gland	Anterior Pituitary	Cyst, Nos
Stomach	Forestomach	Fibrosis
	Forestomach	Ulcer, Nos
Testis		Hypospermatogenesis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_009

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Heart
Kidney

Pulmonary Artery Nos
Myocardium Nos

Mineralization
Fibrosis
Mineralization

Liver

Nephropathy
Fibrosis, Cholangio

Bile Duct

Hyperplasia, Nos

Lung

Inflammation, Interstitial

Testis

Hyperplasia, Interstitial Cell

Unspecified

Abdominal Cavity

Abscess, Nos

Urinary bladder

Hemorrhage

PRIMARY CAUSE OF DEATH

-

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_010

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Kidney		Hemorrhage
		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Prostate		Inflammation, Chronic
Skin	Back	Cyst, Epidermal Inclusion
Testis		Hypospermatogenesis
		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_011

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Fibrosis, Cholangio

Bile Duct

Hyperplasia, Nos

Mammary gland

Fibroadenoma

Testis

Hyperplasia, Interstitial Cell

Thymus

Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_012

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Blood vessel

Heart

Kidney

Liver

Lung

Pancreas

Testis

Pulmonary Artery Nos

Myocardium Nos

Bile Duct

Alveoli

Acinus

Pheochromocytoma

Mineralization

Fibrosis

Hemorrhage

Nephropathy

Fibrosis, Cholangio

Hyperplasia, Nos

Histiocytosis

Atrophy, Nos

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_013

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Myocardium Nos

Bile Duct

Pheochromocytoma

Fibrosis

Nephropathy

Cytoplasmic Change, Ground-Glass

Fibrosis, Cholangio

Hyperplasia, Nos

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_014

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye	Sclera	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney		Hemosiderosis
	Papilla	Mineralization
		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
	Centrilobular	Necrosis, Nos
Lung		Inflammation, Interstitial
Lymph node	Mediastinal Lymph Node	Hemosiderosis
Mammary gland		Fibroadenoma
Prostate		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure
Unspecified	Multiple Organs Nos	Mesothelioma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_015

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Bone	Cartilage,Nos	Necrosis, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
Lung		Inflammation, Interstitial
Lymph node	Mandibular Lymph Node	Degeneration, Cystic
Pancreas	Acinus	Atrophy, Nos
		Polyangiitis
Prostate		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure
Thyroid		Hyperplasia, C Cell
Unspecified	Groin	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_016

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Focal Cellular Change
Blood vessel	Pulmonary Artery Nos	Mineralization
Eye	Sclera	Mineralization
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Papilla	Hemorrhage
		Mineralization
Liver		Nephropathy
		Fibrosis, Cholangio
Lymph node	Bile Duct	Hyperplasia, Nos
Testis	Mediastinal Lymph Node	Hemorrhage
Unspecified	Multiple Organs Nos	Interstitial-Cell Tumor
		Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_017

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Heart
Kidney

Pulmonary Artery Nos
Myocardium Nos

Mineralization
Fibrosis
Hemorrhage

Papilla

Mineralization
Nephropathy

Liver

Bile Duct

Fibrosis, Cholangio

Testis

Hyperplasia, Nos

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_018

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney	Papilla	Mineralization
		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lymph node	Mediastinal Lymph Node	Hemorrhage
Prostate		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_019

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lung		Perivascular Cuffing
Pituitary gland	Anterior Pituitary	Angiectasis
Prostate		Hyperplasia, Epithelial
Spleen		Fibrosis, Multifocal
Testis		Interstitial-Cell Tumor
Thymus		Ectopia
Unspecified	Groin	Fibroma
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_020

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Pheochromocytoma

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Cytoplasmic Change, Ground-Glass

Fibrosis, Cholangio

Bile Duct

Hyperplasia, Nos

Pancreas

Acinus

Atrophy, Nos

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Thymus

Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_021

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Eye	Retina	Cataract
	Sclera	Degeneration, Nos
Heart	Myocardium Nos	Mineralization
Kidney	Papilla	Fibrosis Hemorrhage Mineralization Nephropathy
Liver	Bile Duct	Fibrosis, Cholangio Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Pituitary gland	Anterior Pituitary	Focal Cellular Change
Skin		Keratoacanthoma
Testis		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_022

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal Pheochromocytoma
Bone	Cartilage,Nos	Necrosis, Nos
Kidney	Papilla	Hemorrhage Mineralization Nephropathy
Liver	Bile Duct	Fibrosis, Cholangio Hyperplasia, Nos Neoplastic Nodule
Lung	Anterior Pituitary	Alveolar/Bronchiolar Adenoma
Pituitary gland		Focal Cellular Change
Prostate		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_023

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Liver

Lymph node

Pituitary gland

Prostate

Testis

Thymus

Unspecified

Retina

Sclera

Myocardium Nos

Bile Duct

Mediastinal Lymph Node

Anterior Pituitary

Multiple Organs Nos

Abdominal Cavity

Pheochromocytoma

Cataract

Degeneration, Nos

Mineralization

Fibrosis

Nephropathy

Fibrosis, Cholangio

Hyperplasia, Nos

Hemorrhage

Focal Cellular Change

Hyperplasia, Epithelial

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Mineralization

Persistent Embryonic Structure

Leukemia, Mononuclear Cell

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_024

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Hemorrhage
	Papilla	Mineralization
		Nephropathy
Liver		Angiectasis
Lung		Hemorrhage
Lymph node	Mandibular Lymph Node	Degeneration, Cystic
Pituitary gland	Anterior Pituitary	Cyst, Nos
Prostate		Hyperplasia, Epithelial
		Inflammation, Chronic
Skin	Tail	Squamous Cell Papilloma
Testis		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_025

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Degeneration, Cystic
	Mediastinal Lymph Node	Hemorrhage
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Hyperplasia, Epithelial
		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_026

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Blood vessel

Heart

Kidney

Liver

Lymph node

Pancreas

Testis

Pulmonary Artery Nos

Myocardium Nos

Mandibular Lymph Node

Acinus

Pheochromocytoma

Mineralization

Fibrosis

Nephropathy

Inflammation, Multifocal

Degeneration, Cystic

Atrophy, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_027

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Liver

Lung

Lymph node

Testis

Retina

Sclera

Myocardium Nos

Bile Duct

Mediastinal Lymph Node

Abdomen

Pheochromocytoma

Cataract

Degeneration, Nos

Mineralization

Fibrosis

Nephropathy

Hyperplasia, Nos

Inflammation, Interstitial

Hemorrhage

Granuloma, Spermatic

Hyperplasia, Interstitial Cell

Hypospermatogenesis

Interstitial-Cell Tumor

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_028

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Fibrosis, Cholangio

Bile Duct

Hyperplasia, Nos

Prostate

Hyperplasia, Epithelial

Testis

Interstitial-Cell Tumor

Thymus

Mineralization

Thyroid

Persistent Embryonic Structure

Unspecified

Multiple Organs Nos

Hyperplasia, C Cell

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_029

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney	Papilla	Mineralization
		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Skin	Scrotum	Fibroma
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_030

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Epididymis		Inflammation, Chronic
Intestine Small	Jejunum	Adenoma, Nos
Kidney		Hemorrhage Nephropathy
Liver		Cytoplasmic Change, Nos Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Interstitial
Lymph node	Mandibular Lymph Node	Degeneration, Cystic
Skin	Scrotum	Fibroma
Spleen		Hemangioma
Testis		Interstitial-Cell Tumor
		Mineralization
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_031

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney	Papilla	Hemorrhage
		Mineralization
		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
		Epithelialization
Lung		Degeneration, Cystic
Lymph node	Mandibular Lymph Node	Adenoma, Nos
Pituitary gland	Anterior Pituitary	Interstitial-Cell Tumor
Testis		Persistent Embryonic Structure
Thymus		Hyperplasia, C Cell
Thyroid		Leukemia, Mononuclear Cell
Unspecified	Multiple Organs Nos	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014
Time Report Requested: 12:29:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_032

TRT#: 2
DOSE: 150.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Lipoidosis
Eye		Cataract
	Retina	Degeneration, Nos
	Sclera	Mineralization
Kidney		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Preputial gland		Dilatation, Ducts
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_033

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Kidney		Nephropathy
Pancreas	Acinus	Atrophy, Nos
Testis		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure
Unspecified	Groin	Abscess, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_034

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Papilla

Mineralization

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Pancreas

Focal Cellular Change

Testis

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_035

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Kidney		Nephropathy
Lung	Alveoli	Histiocytosis
Preputial gland		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Abdominal Cavity	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_036

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Blood vessel

Kidney

Liver

Lung

Prostate

Skin

Testis

Pulmonary Artery Nos

Papilla

Bile Duct

Groin

Pheochromocytoma

Mineralization

Mineralization

Nephropathy

Hyperplasia, Nos

Inflammation, Interstitial

Inflammation, Chronic

Fibroma

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_037

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Kidney

Papilla

Mineralization

Liver

Nephropathy

Angiectasis

Fibrosis, Cholangio

Bile Duct

Hyperplasia, Nos

Neoplastic Nodule

Lymph node

Mandibular Lymph Node

Degeneration, Cystic

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Anterior Pituitary

Angiectasis

Testis

Interstitial-Cell Tumor

Thymus

Persistent Embryonic Structure

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

Abdomen

Lipoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_038

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney	Tubule	Calculus, Microscopic Examination
		Nephropathy
Lung		Edema, Nos
Testis		Hyperplasia, Interstitial Cell
		Hyospermatogenesis
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_039

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney	Papilla	Hemorrhage
		Mineralization
		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_040

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Heart
Kidney

Pulmonary Artery Nos
Myocardium Nos
Papilla

Mineralization
Fibrosis
Mineralization

Liver

Bile Duct

Nephropathy
Fibrosis, Cholangio
Hyperplasia, Nos
Neoplastic Nodule

Mammary gland
Testis

Fibroadenoma
Interstitial-Cell Tumor
Mineralization

Thyroid
Unspecified

Multiple Organs Nos

Hyperplasia, C Cell
Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_041

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain		Hemorrhage
Eye	Cornea	Inflammation, Suppurative
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_042

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Bone
Heart
Kidney
Liver

Pulmonary Artery Nos
Cartilage,Nos
Myocardium Nos

Mineralization
Necrosis, Nos
Fibrosis
Nephropathy
Angiectasis
Fibrosis, Cholangio
Hyperplasia, Nos
Hemorrhage
Focal Cellular Change
Polyangiitis
Interstitial-Cell Tumor
Leukemia, Mononuclear Cell
Necrosis, Fat

Lung
Pancreas

Bile Duct

Testis
Unspecified

Multiple Organs Nos
Abdominal Cavity

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014
Time Report Requested: 12:29:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_043

TRT#: 2
DOSE: 150.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney	Papilla	Mineralization
		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
Testis		Interstitial-Cell Tumor
		Mineralization
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_044

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Epididymis
Heart
Kidney
Liver

Pulmonary Artery Nos

Myocardium Nos

Mineralization
Metaplasia, Nos
Fibrosis
Nephropathy
Cytoplasmic Change, Nos
Fibrosis, Cholangio
Metamorphosis, Fatty
Fibrosarcoma, Metastatic
Adnexal Adenoma
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Fibrosarcoma

Lung
Skin
Testis

Unspecified

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_045

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Blood vessel
Bone
Kidney
Liver

Pulmonary Artery Nos
Cartilage,Nos

Pheochromocytoma
Mineralization
Necrosis, Nos
Nephropathy
Angiectasis
Fibrosis, Cholangio
Hyperplasia, Nos
Atrophy, Nos
Hyperplasia, Epithelial
Interstitial-Cell Tumor
Ectopia
Persistent Embryonic Structure
C-Cell Carcinoma

Pancreas
Prostate
Testis
Thymus

Bile Duct
Acinus

Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014
Time Report Requested: 12:29:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_046

TRT#: 2
DOSE: 150.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Kidney		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
		Necrosis, Focal
Lung		Inflammation, Interstitial
		Perivascular Cuffing
Mammary gland		Galactocele
Pancreas	Acinus	Atrophy, Nos
Prostate		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_047

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Focal Cellular Change
Kidney		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lung		Alveolar/Bronchiolar Adenoma
Pancreas		Focal Cellular Change
Pituitary gland	Anterior Pituitary	Focal Cellular Change
Prostate		Hyperplasia, Epithelial
		Inflammation, Chronic
Skin	Chest	Adnexal Adenoma
Testis		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_048

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney	Papilla	Mineralization
		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Edema, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_049

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Eye

Sclera

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Hemorrhage

Liver

Nephropathy

Fibrosis, Cholangio

Bile Duct

Hyperplasia, Nos

Lymph node

Mediastinal Lymph Node

Hemorrhage

Testis

Interstitial-Cell Tumor

Thymus

Persistent Embryonic Structure

Thyroid

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_050

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Kidney

Papilla

Mineralization

Lung

Nephropathy

Prostate

Inflammation, Interstitial

Testis

Hyperplasia, Epithelial

Thymus

Interstitial-Cell Tumor

Mineralization

Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_001

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Kidney
Liver

Pulmonary Artery Nos

Mineralization
Nephropathy
Fibrosis, Cholangio

Bile Duct

Hyperplasia, Nos
Neoplastic Nodule

Lymph node
Mammary gland
Pancreas
Prostate

Mediastinal Lymph Node

Hemorrhage
Hyperplasia, Nodular

Acinus

Atrophy, Nos
Hyperplasia, Epithelial
Inflammation, Chronic

Testis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Mineralization
Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_002

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel
Heart
Kidney

Pulmonary Artery Nos
Myocardium Nos

Mineralization
Fibrosis
Infarct, Nos
Nephropathy
Necrosis, Nos
Keratoacanthoma
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Cystic Follicles
Hematoma, Nos

Liver
Skin
Testis

Centrilobular
Thorax

Thyroid
Unspecified

Abdominal Cavity

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014
Time Report Requested: 12:29:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_003

TRT#: 3
DOSE: 300.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Bone	Cartilage,Nos	Necrosis, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lymph node	Mediastinal Lymph Node	Hemorrhage
Pancreas	Acinus	Atrophy, Nos
Testis		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure
Unspecified	Chest	Fibroma
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_004

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Epididymis		Inflammation, Chronic
Kidney		Nephropathy
Liver		Cytoplasmic Change, Nos
		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Lymph node	Mediastinal Lymph Node	Hemosiderosis
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
Trachea		Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_005

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Kidney

Liver

Lymph node

Testis

Thyroid

Bile Duct

Mediastinal Lymph Node

Nephropathy

Hyperplasia, Nos

Hemorrhage

Interstitial-Cell Tumor

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_006

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Testis

Thymus

Thyroid

Unspecified

Myocardium Nos

Bile Duct

Abdominal Cavity

Pheochromocytoma

Fibrosis

Nephropathy

Hyperplasia, Nos

Interstitial-Cell Tumor

Mineralization

Persistent Embryonic Structure

Hyperplasia, C Cell

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_007

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Testis

Interstitial-Cell Tumor

Thymus

Persistent Embryonic Structure

Thyroid

Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_008

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney	Papilla	Mineralization
		Nephropathy
Liver		Angiectasis
		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lymph node	Mediastinal Lymph Node	Hemosiderosis
Prostate		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_009

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone	Cartilage,Nos	Necrosis, Nos
Heart	Atrium	Thrombosis, Nos
Kidney		Nephropathy
Testis		Interstitial-Cell Tumor
Unspecified	Abdominal Cavity	Mesothelioma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_010

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney		Nephropathy
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Suppurative
Stomach	Forestomach	Inflammation, Acute
Urinary bladder		Transitional-Cell Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_011

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Focal Cellular Change
Brain		Hemorrhage
Eye		Cataract
	Retina	Degeneration, Nos
	Sclera	Mineralization
Heart	Myocardium Nos	Degeneration, Nos
		Hemorrhage
Kidney		Nephropathy
Testis		Interstitial-Cell Tumor
Trachea		Inflammation, Acute
Unspecified	Mediastinum Nos	Hemorrhage
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_012

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone	Cartilage,Nos	Necrosis, Nos
Eye		Cataract
	Retina	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis
		Ectopia
Lung		Hemorrhage
Lymph node	Mandibular Lymph Node	Degeneration, Cystic
Stomach	Fundus	Ulcer, Nos
Testis		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_013

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel
Heart
Kidney

Ascending Aorta
Myocardium Nos

Mineralization
Fibrosis
Mineralization
Nephropathy
Hyperplasia, Nos
Edema, Nos
Inflammation, Suppurative
Interstitial-Cell Tumor
Mineralization
Necrosis, Hemorrhagic

Liver
Lung
Seminal vesicle
Testis

Bile Duct

Urinary bladder

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_014

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone	Cartilage,Nos	Necrosis, Nos
Eye		Cataract
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Pancreas	Islets	Islet-Cell Adenoma
Prostate		Inflammation, Chronic
Testis		Hyperplasia, Interstitial Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_015

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone	Cartilage,Nos	Necrosis, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Hemorrhage
		Nephropathy
Liver		Angiectasis
	Bile Duct	Hyperplasia, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_016

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney
Liver

Medulla

Hyperplasia, Focal
Nephropathy
Fibrosis, Cholangio

Lymph node
Pancreas
Pituitary gland
Prostate
Testis
Thymus

Bile Duct
Mediastinal Lymph Node
Islets
Anterior Pituitary

Hyperplasia, Nos
Hemorrhage
Islet-Cell Adenoma
Adenoma, Nos
Hyperplasia, Epithelial
Interstitial-Cell Tumor
Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_017

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Oral mucosa

Testis

Thymus

Myocardium Nos

Palate

Pheochromocytoma

Fibrosis

Nephropathy

Fibrosis, Cholangio

Hemorrhage

Interstitial-Cell Tumor

Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_018

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Liver		Metamorphosis, Fatty
Testis		Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_019

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Kidney
Liver

Pulmonary Artery Nos

Mineralization
Nephropathy
Cytoplasmic Change, Nos
Fibrosis, Cholangio

Bile Duct

Hyperplasia, Nos
Neoplastic Nodule

Lymph node
Testis

Mediastinal Lymph Node

Hemorrhage
Interstitial-Cell Tumor

Thyroid

Mineralization
C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_020

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Degeneration, Cystic
Pancreas	Acinus	Atrophy, Nos
Prostate		Hyperplasia, Epithelial
		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_021

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Kidney

Pulmonary Artery Nos

Mineralization
Hemosiderosis

Papilla

Mineralization
Nephropathy

Liver
Lung
Spleen
Testis

Bile Duct

Hyperplasia, Nos
Hemorrhage

Unspecified

Multiple Organs Nos

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_022

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Pulmonary Artery Nos	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
Skin	Thorax	Hyperkeratosis
Testis		Hypospermatogenesis
		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_023

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Bone

Heart

Kidney

Liver

Pituitary gland

Prostate

Testis

Thymus

Thyroid

Unspecified

Cartilage,Nos

Myocardium Nos

Bile Duct

Anterior Pituitary

Multiple Organs Nos

Pheochromocytoma

Necrosis, Nos

Fibrosis

Nephropathy

Hyperplasia, Nos

Focal Cellular Change

Hyperplasia, Epithelial

Interstitial-Cell Tumor

Persistent Embryonic Structure

Hyperplasia, C Cell

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_024

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Atrium

Thrombosis, Nos

Kidney

Nephropathy

Liver

Centrilobular

Necrosis, Nos

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014
Time Report Requested: 12:29:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_025

TRT#: 3
DOSE: 300.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Kidney		Hemorrhage
		Hemosiderosis
		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Interstitial
Lymph node		Hemosiderosis
Pancreas	Mediastinal Lymph Node	Acinar-Cell Adenoma
Pituitary gland		Cyst, Nos
Prostate	Anterior Pituitary	Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure
Thyroid		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Multiple Organs Nos	Mesothelioma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_026

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Bone	Cartilage,Nos	Necrosis, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Hemorrhage
		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Pancreas		Focal Cellular Change
Prostate		Hyperplasia, Epithelial
Skin		Keratoacanthoma
		Squamous Cell Papilloma
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_027

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lymph node	Mediastinal Lymph Node	Hemorrhage
Testis		Interstitial-Cell Tumor
Thyroid		Cyst, Ultimobranchial
		Cystic Follicles
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014
Time Report Requested: 12:29:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_028

TRT#: 3
DOSE: 300.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Hemorrhage
		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
		Inflammation, Multifocal
Pancreas	Acinus	Atrophy, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_029

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone	Cartilage,Nos	Necrosis, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Eosinophilic
		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Focal Cellular Change
Prostate		Inflammation, Chronic
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014
Time Report Requested: 12:29:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_030

TRT#: 3
DOSE: 300.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Bone	Cartilage,Nos	Necrosis, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Hemorrhage
		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Ground-Glass
		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lymph node	Mediastinal Lymph Node	Hemorrhage
Prostate		Hyperplasia, Epithelial
		Inflammation, Chronic
Salivary gland		Focal Cellular Change
Testis		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure
Unspecified	Groin	Fibrosis, Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_031

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Nephropathy

Liver

Fibrosis, Cholangio

Testis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Mineralization

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_032

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Lymph node

Mandibular Lymph Node

Degeneration, Cystic

Testis

Interstitial-Cell Tumor

Thymus

Persistent Embryonic Structure

Thyroid

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014
Time Report Requested: 12:29:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_033

TRT#: 3
DOSE: 300.0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Kidney	Papilla	Hemosiderosis Mineralization Nephropathy
Liver	Bile Duct	Fibrosis, Cholangio Hyperplasia, Nos Inflammation, Chronic
Preputial gland		Inflammation, Chronic
Prostate		Hyperplasia, Interstitial Cell
Testis		Hyospermatogenesis Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Mesothelioma, Malignant
	Multiple Organs Nos	Leukemia, Mononuclear Cell Mesothelioma, Invasive

PRIMARY CAUSE OF DEATH

-

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_034

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Testis

Unspecified

Urinary bladder

Myocardium Nos

Multiple Organs Nos

Pheochromocytoma

Fibrosis

Nephropathy

Hyperplasia, Interstitial Cell

Leukemia, Mononuclear Cell

Dilatation, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014
Time Report Requested: 12:29:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_035

TRT#: 3
DOSE: 300.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Bone	Cartilage,Nos	Necrosis, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
	Bile Duct	Fibrosis, Cholangio
Lung		Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Hemorrhage
	Mesenteric Lymph Node	Degeneration, Cystic
Mammary gland		Degeneration, Cystic
Pancreas		Fibroadenoma
Pituitary gland	Intermedia	Acinar-Cell Adenoma
Prostate		Adenoma, Nos
		Hyperplasia, Epithelial
Testis		Inflammation, Chronic
		Interstitial-Cell Tumor
Unspecified	Back	Mineralization
	Multiple Organs Nos	Fibroma
		Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_036

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_037

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Bone	Cartilage,Nos	Necrosis, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Angiectasis
	Bile Duct	Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure
Thyroid		Follicular-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_038

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Bone

Cartilage,Nos

Necrosis, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Hemorrhage

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Prostate

Hyperplasia, Epithelial

Skin

Back

Trichoepithelioma

Testis

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_039

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Lung		Hemorrhage
		Inflammation, Suppurative
Testis		Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_040

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Bone
Heart
Kidney
Liver

Pulmonary Artery Nos
Cartilage,Nos
Myocardium Nos

Mineralization
Necrosis, Nos
Fibrosis
Nephropathy
Fibrosis, Cholangio
Hyperplasia, Nos
Focal Cellular Change
Interstitial-Cell Tumor
Persistent Embryonic Structure
Follicular-Cell Adenoma

Pituitary gland
Testis
Thymus
Thyroid

Bile Duct
Anterior Pituitary

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_041

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Mineralization
Eye		Cataract
	Retina	Degeneration, Nos
	Sclera	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Skin	Chest	Fibroma
Testis		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_042

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Heart
Kidney
Liver

Pulmonary Artery Nos
Myocardium Nos

Mineralization
Fibrosis
Nephropathy
Fibrosis, Cholangio

Lymph node
Testis

Bile Duct
Mediastinal Lymph Node

Hyperplasia, Nos
Hemosiderosis
Hypospermatogenesis
Interstitial-Cell Tumor

Unspecified
Zymbal gland

Multiple Organs Nos

Mesothelioma, Nos
Leukemia, Mononuclear Cell
Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_043

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Eye

Cataract

Heart

Retina

Degeneration, Nos

Preputial gland

Myocardium Nos

Fibrosis

Thymus

Adenoma, Nos

Thyroid

Persistent Embryonic Structure

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_044

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Bone	Cartilage,Nos	Necrosis, Nos
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney	Papilla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Eosinophilic
		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Pancreas	Islets	Islet-Cell Carcinoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_045

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Blood vessel

Kidney

Liver

Ascending Aorta

Bile Duct

Lung

Skin

Testis

Abdomen

Thymus

Pheochromocytoma

Inflammation, Chronic

Nephropathy

Fibrosis, Cholangio

Hyperplasia, Nos

Neoplastic Nodule

Hemorrhage

Adnexal Adenoma

Interstitial-Cell Tumor

Mineralization

Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_046

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Bone

Heart

Kidney

Liver

Cartilage,Nos

Myocardium Nos

Bile Duct

Pheochromocytoma

Necrosis, Nos

Fibrosis

Nephropathy

Cytoplasmic Change, Ground-Glass

Fibrosis, Cholangio

Hyperplasia, Nos

Interstitial-Cell Tumor

Persistent Embryonic Structure

Testis

Thymus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_047

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Liver

Bile Duct

Lung

Preputial gland

Testis

Thymus

Thyroid

Unspecified

Groin

Pheochromocytoma

Hemorrhage

Nephropathy

Cytoplasmic Change, Ground-Glass

Fibrosis, Cholangio

Hyperplasia, Nos

Inflammation, Multifocal

Inflammation, Interstitial

Perivascular Cuffing

Adenoma, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Ectopia

Persistent Embryonic Structure

Cystic Follicles

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_048

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Papilla

Mineralization

Mammary gland

Nephropathy

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Preputial gland

Adenoma, Nos

Abscess, Nos

Testis

Adenoma, Nos

Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_049

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone	Cartilage,Nos	Necrosis, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Testis		Interstitial-Cell Tumor
		Mineralization
Unspecified	Groin	Fibroma
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_050

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Hemosiderosis
		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lymph node	Mediastinal Lymph Node	Hemosiderosis
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
		Cyst, Nos
Testis		Interstitial-Cell Tumor
		Mesothelioma, Malignant
Unspecified	Multiple Organs Nos	Mesothelioma, Invasive

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_001

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye

Retina

Cataract

Heart

Sclera

Degeneration, Nos

Kidney

Myocardium Nos

Mineralization

Liver

Bile Duct

Fibrosis

Lung

Alveoli

Nephropathy

Pancreas

Islets

Fibrosis, Cholangio

Prostate

Testis

Hyperplasia, Nos

Histiocytosis

Islet-Cell Adenoma

Inflammation, Chronic

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_002

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Bone

Epididymis

Eye

Heart

Kidney

Liver

Pancreas

Testis

Thymus

Thyroid

Cartilage,Nos

Retina

Myocardium Nos

Bile Duct

Acinus

Pheochromocytoma

Necrosis, Nos

Inflammation, Chronic

Cataract

Degeneration, Nos

Fibrosis

Nephropathy

Fibrosis, Cholangio

Hyperplasia, Nos

Atrophy, Nos

Interstitial-Cell Tumor

Persistent Embryonic Structure

Cyst, Ultimobranchial

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_003

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Myocardium Nos

Pheochromocytoma

Degeneration, Nos

Hematopoiesis

Nephropathy

Pituitary gland

Preputial gland

Spleen

Stomach

Testis

Anterior Pituitary

Angiectasis

Abscess, Nos

Hematopoiesis

Fundus

Ulcer, Nos

Interstitial-Cell Tumor

Mineralization

Unspecified

Abdomen

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_004

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Fibrosis, Myelo

Brain

Astrocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Fibrosis, Cholangio

Testis

Bile Duct

Hyperplasia, Nos

Hypospermatogenesis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Mineralization

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_005

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Interstitial
Lymph node	Mandibular Lymph Node	Hemorrhage
Prostate		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_006

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Heart
Kidney

Pulmonary Artery Nos
Myocardium Nos

Mineralization
Fibrosis
Hemorrhage
Nephropathy

Liver

Bile Duct

Angiectasis

Lymph node

Mandibular Lymph Node

Hyperplasia, Nos

Prostate

Degeneration, Cystic

Testis

Hyperplasia, Epithelial

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_007

TRT#: 4

DOSE: 0

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Kidney

Hemorrhage

Prostate

Nephropathy

Testis

Hyperplasia, Epithelial

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_008

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Metamorphosis, Fatty
Pancreas	Acinus	Atrophy, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_009

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Fibrosis, Cholangio

Bile Duct

Hyperplasia, Nos

Pancreas

Islets

Islet-Cell Adenoma

Prostate

Hyperplasia, Epithelial

Testis

Inflammation, Chronic

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_010

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Abscess, Nos
Prostate		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_011

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Lung

Inflammation, Interstitial

Mammary gland

Fibroadenoma

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_012

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Blood vessel

Heart

Kidney

Liver

Preputial gland

Testis

Pulmonary Artery Nos

Myocardium Nos

Bile Duct

Pheochromocytoma

Mineralization

Fibrosis

Hemorrhage

Nephropathy

Fibrosis, Cholangio

Hyperplasia, Nos

Adenoma, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_013

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Focal Cellular Change

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Polycystic Kidney

Liver

Fibrosis, Cholangio

Bile Duct

Hyperplasia, Nos

Pancreas

Acinus

Atrophy, Nos

Testis

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_014

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Cytoplasmic Change, Ground-Glass
	Bile Duct	Hyperplasia, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_015

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Myocardium Nos

Bile Duct

Lymph node

Pituitary gland

Testis

Mediastinal Lymph Node

Anterior Pituitary

Pheochromocytoma

Fibrosis

Nephropathy

Fibrosis, Cholangio

Hyperplasia, Nos

Inflammation, Multifocal

Metamorphosis, Fatty

Hemorrhage

Angiectasis

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_016

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Focal Cellular Change

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Hemorrhage

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Focal Cellular Change

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_017

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Focal Cellular Change

Blood vessel

Pulmonary Artery Nos

Mineralization

Bone

Cartilage,Nos

Necrosis, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Fibrosis, Cholangio

Bile Duct

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Prostate

Abscess, Nos

Testis

Mineralization

Thymus

Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_018

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Liver

Lung

Pituitary gland

Unspecified

Urinary bladder

Bile Duct

Anterior Pituitary

Multiple Organs Nos

Pheochromocytoma

Nephropathy

Fibrosis, Cholangio

Hyperplasia, Nos

Hemorrhage

Hemorrhage

Leukemia, Mononuclear Cell

Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_019

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Pancreas

Pituitary gland

Prostate

Testis

Myocardium Nos

Bile Duct

Anterior Pituitary

Hemorrhage

Fibrosis

Nephropathy

Fibrosis, Cholangio

Hyperplasia, Nos

Hyperplasia, Focal

Focal Cellular Change

Hyperplasia, Epithelial

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_020

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Blood vessel

Kidney

Liver

Pituitary gland

Testis

Pulmonary Artery Nos

Bile Duct

Anterior Pituitary

Pheochromocytoma

Mineralization

Nephropathy

Hyperplasia, Nos

Adenoma, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Mineralization

C-Cell Adenoma

Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_021

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Kidney

Pulmonary Artery Nos

Mineralization

Liver

Hemorrhage

Nephropathy

Lung

Bile Duct

Fibrosis, Cholangio

Lymph node

Alveoli

Hyperplasia, Nos

Testis

Mediastinal Lymph Node

Histiocytosis

Hemorrhage

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_022

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain		Hemorrhage
Kidney		Nephropathy
Salivary gland		Embolus, Foreign Body
		Perivasculitis
Skin		Hemorrhage
		Hyperkeratosis
Testis		Interstitial-Cell Tumor
		Mineralization
Thymus		Persistent Embryonic Structure
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_023

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Bone

Cartilage,Nos

Necrosis, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Focal Cellular Change

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Thymus

Mineralization

Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_024

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Hemorrhage
		Nephropathy
Pituitary gland	Anterior Pituitary	Focal Cellular Change
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Zymbal gland		Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_025

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Kidney
Liver

Pulmonary Artery Nos

Mineralization
Nephropathy
Cytoplasmic Change, Nos
Fibrosis, Cholangio
Neoplastic Nodule

Pituitary gland
Testis
Thyroid
Unspecified

Anterior Pituitary

Cyst, Nos
Interstitial-Cell Tumor
Follicular-Cell Adenoma
Leukemia, Mononuclear Cell

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_026

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Heart
Kidney
Liver

Pulmonary Artery Nos
Myocardium Nos

Mineralization
Fibrosis
Nephropathy
Fibrosis, Cholangio

Lung
Lymph node
Pancreas
Testis

Bile Duct

Hyperplasia, Nos
Hemorrhage
Degeneration, Cystic
Atrophy, Nos

Mandibular Lymph Node
Acinus

Interstitial-Cell Tumor

Thymus

Mineralization
Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_027

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Testis

Thymus

Myocardium Nos

Lipoidosis

Fibrosis

Nephropathy

Hypospermatogenesis

Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_028

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney		Hemorrhage
		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Mammary gland		Galactocele
Pituitary gland	Anterior Pituitary	Focal Cellular Change
Prostate		Hyperplasia, Epithelial
Skin	Back	Squamous Cell Papilloma
Testis		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_029

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Degeneration, Cystic
Pancreas	Acinus	Atrophy, Nos
Pituitary gland	Anterior Pituitary	Angiectasis
Prostate		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Cyst, Ultimobranchial
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_030

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Fibrosis, Cholangio

Bile Duct

Hyperplasia, Nos

Lung

Epithelialization

Mammary gland

Inflammation, Granulomatous

Testis

Interstitial-Cell Tumor

Thymus

Persistent Embryonic Structure

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_031

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Kidney

Liver

Pituitary gland

Retina

Bile Duct

Anterior Pituitary

Angiectasis

Degeneration, Nos

Hemorrhage

Nephropathy

Cytoplasmic Change, Ground-Glass

Fibrosis, Cholangio

Hyperplasia, Nos

Adenoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_032

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Focal Cellular Change

Eye

Cataract

Retina

Degeneration, Nos

Hemorrhage

Kidney

Nephropathy

Liver

Fibrosis, Cholangio

Bile Duct

Hyperplasia, Nos

Mammary gland

Dilatation, Ducts

Testis

Interstitial-Cell Tumor

Thymus

Persistent Embryonic Structure

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_033

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Bone

Cartilage,Nos

Necrosis, Nos

Knee Joint Nos

Osteosarcoma

Eye

Cataract

Retina

Degeneration, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Lung

Alveolar/Bronchiolar Adenoma

Lymph node

Mandibular Lymph Node

Osteosarcoma, Metastatic

Testis

Hemorrhage

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_034

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone	Cartilage,Nos	Necrosis, Nos
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
		Inflammation, Multifocal
Testis		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_035

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Interstitial
Mammary gland		Fibroadenoma
Pituitary gland	Anterior Pituitary	Angiectasis
Testis		Interstitial-Cell Tumor
Thymus		Persistent Embryonic Structure
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_036

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Hemorrhage

Nephropathy

Liver

Fibrosis, Cholangio

Bile Duct

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_037

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Epididymis

Heart

Kidney

Liver

Myocardium Nos

Pancreas

Skin

Testis

Thymus

Bile Duct

Acinus

Lip Nos

Inflammation, Chronic

Fibrosis

Nephropathy

Cytoplasmic Change, Ground-Glass

Fibrosis, Cholangio

Hyperplasia, Nos

Atrophy, Nos

Basal-Cell Tumor

Interstitial-Cell Tumor

Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_038

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Pulmonary Artery Nos	Mineralization
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Pituitary gland	Anterior Pituitary	Focal Cellular Change
Preputial gland		Carcinoma, Nos
Prostate		Hyperplasia, Epithelial
Testis		Hyperplasia, Interstitial Cell
Thymus		Persistent Embryonic Structure
Thyroid		Cyst, Follicular Nos
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_039

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Brain		Hemorrhage
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Necrosis, Nos
Preputial gland		Abscess, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_040

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Mammary gland

Pancreas

Testis

Thyroid

Myocardium Nos

Acinus

Degeneration, Lipoid

Fibrosis

Nephropathy

Fibroadenoma

Atrophy, Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_041

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye	Sclera	Mineralization
Kidney		Hemosiderosis
		Nephropathy
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Lymphocytic Inflammatory Infiltrate
Testis		Interstitial-Cell Tumor
Thymus		Ectopia
		Persistent Embryonic Structure
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Mesothelioma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_042

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Epididymis

Heart

Kidney

Myocardium Nos

Inflammation, Chronic

Fibrosis

Hemorrhage

Inflammation, Interstitial

Nephropathy

Liver

Testis

Thymus

Thyroid

Unspecified

Bile Duct

Hyperplasia, Nos

Interstitial-Cell Tumor

Persistent Embryonic Structure

C-Cell Adenoma

Chest

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Dimethyl morpholinophosphoramidate
CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_043

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Lymph node

Pancreas

Testis

Thyroid

Unspecified

Myocardium Nos

Mandibular Lymph Node

Islets

Multiple Organs Nos

Pheochromocytoma

Fibrosis

Nephropathy

Degeneration, Cystic

Islet-Cell Adenoma

Interstitial-Cell Tumor

Cyst, Ultimobranchial

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_044

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver		Cytoplasmic Change, Eosinophilic
		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_045

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Nephropathy

Liver

Fibrosis, Cholangio

Bile Duct

Hyperplasia, Nos

Prostate

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

Thymus

Persistent Embryonic Structure

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_046

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lymph node	Mediastinal Lymph Node	Degeneration, Cystic
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_047

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Eye		Hemorrhage
Heart	Myocardium Nos	Fibrosis
Kidney		Nephropathy
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified		Fibroma
	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Hemorrhage
		Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_048

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Epididymis

Heart

Kidney

Liver

Pituitary gland

Testis

Unspecified

Myocardium Nos

Bile Duct

Anterior Pituitary

Multiple Organs Nos

Thoracic Cavity Nos

Pheochromocytoma

Inflammation, Chronic

Fibrosis

Hemorrhage

Nephropathy

Cytoplasmic Change, Ground-Glass

Hyperplasia, Nos

Focal Cellular Change

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

Polyangiitis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_049

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Focal Cellular Change

Blood vessel

Pulmonary Artery Nos

Mineralization

Heart

Myocardium Nos

Fibrosis

Kidney

Hemorrhage

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Prostate

Hyperplasia, Epithelial

Testis

Interstitial-Cell Tumor

Mineralization

Thyroid

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54740

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Dimethyl morpholinophosphoramidate

CAS Number: 597-25-1

Date Report Requested: 10/26/2014

Time Report Requested: 12:29:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_050

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Blood vessel

Heart

Kidney

Liver

Preputial gland

Salivary gland

Testis

Thymus

Thyroid

Unspecified

Pulmonary Artery Nos

Myocardium Nos

Bile Duct

Groin

Pheochromocytoma

Mineralization

Fibrosis

Nephropathy

Fibrosis, Cholangio

Hyperplasia, Nos

Carcinoma, Nos

Metaplasia, Squamous

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Persistent Embryonic Structure

Follicular-Cell Adenoma

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****