

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

<b>C Number:</b>	C54740
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Female

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_001

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Intestine Small

Cortex Nos  
Jejunum  
Jejunum  
Mandibular Lymph Node

Lymph node  
Thyroid  
Unspecified

Multiple Organs Nos  
Multiple Organs Nos  
Endometrium

Atrophy, Brown  
Leiomyosarcoma  
Ulcer, Nos  
Hyperplasia, Lymphoid  
Cyst, Follicular Nos  
Leukemoid Reaction  
Lymphocytic Inflammatory Infiltrate  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_002

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Bone marrow		Myelosclerosis
Intestine Small	Jejunum	Hyperplasia, Lymphoid
Lymph node	Mesenteric Lymph Node	Angiectasis
	Mesenteric Lymph Node	Hemorrhage
Mammary gland		Hyperplasia, Nos
Ovary		Cyst, Nos
Pituitary gland		Chromophobe Adenoma
Spleen		Hematopoiesis
Thyroid		Inflammation, Granulomatous
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic
		Thrombosis, Nos

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_003

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow		Myelosclerosis
Brain		Mineralization
Heart	Cardiac Valve	Pigmentation, Nos
Intestine Small	Jejunum	Hyperplasia, Lymphoid
Liver		Hepatocellular Carcinoma
Lung		Alveolar/Bronchiolar Carcinoma
		Hemorrhage
		Histiocytosis
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_004

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Unspecified

Multiple Organs Nos

Congestion, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_005

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
Lung		Alveolar/Bronchiolar Adenoma
		Histiocytosis
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_006

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Kidney		Nephrosis, Nos
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
	Multiple Organs Nos	Necrosis, Fat
Ureter	Periureteral Tissue	Steatitis
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_007

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Hyperplasia, Lymphoid
	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic
	Endometrium	Inflammation, Acute

PRIMARY CAUSE OF DEATH

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_008

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Lung

Edema, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_009

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Brain		Mineralization
Thymus	Lymphocytes	Necrosis, Nos
Unspecified	Multiple Organs Nos	Leukemia, Granulocytic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_010

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Vacuolization
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pituitary gland		Chromophobe Adenoma
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_011

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Ovary  
Unspecified

Cortex Nos  
  
Multiple Organs Nos  
Multiple Organs Nos  
Multiple Organs Nos

Atrophy, Brown  
Cyst, Nos  
Hematopoiesis  
Lymphoma, Histiocytic-Malignant Type  
Mineralization  
Endometrial Stromal Sarcoma  
Hydrometra

Uterus

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_012

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Unspecified

Multiple Organs Nos

Congestion, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_013

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_014

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Brain		Mineralization
Liver		Cytoplasmic Vacuolization
Mammary gland		Adenocarcinoma, Nos
Pancreas	Acinus	Atrophy, Nos
Unspecified	Multiple Organs Nos	Hyperplasia, Lymphoid
	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_015

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Eye		Collapse
Harderian gland	Hardarian Gland	Papillary Adenocarcinoma
Liver		Cytoplasmic Vacuolization
Lung		Alveolar/Bronchiolar Adenoma
Pituitary gland		Hyperplasia, Chromophobe Cell
Salivary gland		Atrophy, Nos
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-



**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_016

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Lung

Uterus

Endometrium

Congestion, Nos

Hemorrhage

Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_017

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
		Inflammation, Necrotizing
		Lymphocytic Inflammatory Infiltrate
Pituitary gland		Chromophobe Adenoma
Spleen		Hemosiderosis
Thymus		Hyperplasia, Lymphoid

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_018

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Bone marrow  
Liver  
Mammary gland

Cortex Nos

Atrophy, Brown  
Myelosclerosis  
Clear-Cell Change  
Hyperplasia, Nos  
Lactation  
Chromophobe Adenoma  
Cyst, Nos  
Lymphocytic Inflammatory Infiltrate  
Cyst, Nos

Pituitary gland  
Thymus  
Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_019

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Kidney		Lymphocytic Inflammatory Infiltrate
Liver		Cytoplasmic Vacuolization
Pancreas	Acinus	Cytoplasmic Vacuolization
Thyroid		Cyst, Follicular Nos
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_020

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Atrophy, Brown

Cortex Nos

Hypertrophy, Focal

Bone marrow

Myelosclerosis

Brain

Mineralization

Liver

Cytoplasmic Vacuolization

Unspecified

Multiple Organs Nos

Lymphocytic Inflammatory Infiltrate

Uterus

Endometrium

Hyperplasia, Cystic

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PRIMARY CAUSE OF DEATH

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_021

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown Cyst, Nos
Bone marrow	Cortex Nos	Hypertrophy, Focal Myelosclerosis
Liver		Cytoplasmic Change, Eosinophilic Cytoplasmic Vacuolization
Thyroid		Cyst, Follicular Nos Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_022

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Stomach	
Unspecified	Multiple Organs Nos
Uterus	Endometrium

Cyst, Nos  
Congestion, Nos  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_023

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Unspecified

Multiple Organs Nos

Congestion, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_024

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Kidney		Infarct, Nos
Liver		Cytoplasmic Vacuolization
Ovary		Cyst, Nos
Thymus		Cyst, Multiple
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Cyst, Multiple

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_025

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Kidney		Metaplasia, Osseous
		Nephrosis, Nos
Liver		Cytoplasmic Vacuolization
		Lymphocytic Inflammatory Infiltrate
Pancreas	Peripancreatic Tissue	Necrosis, Fat
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_026

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Kidney		Nephrosis, Nos
Liver		Hepatocellular Carcinoma
		Necrosis, Nos
Spleen		Hematopoiesis
Stomach		Necrosis, Nos
Unspecified	Multiple Organs Nos	Inflammation, Granulomatous
Uterus	Endometrium	Cyst, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_027

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Kidney		Infarct, Nos
Liver		Cytoplasmic Vacuolization
Mammary gland		Hyperplasia, Nos
Pituitary gland		Chromophobe Adenoma
Thymus		Cyst, Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Endometrial Stromal Polyp Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_028

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Kidney		Nephrosis, Nos
Liver		Clear-Cell Change
Spleen		Hemosiderosis
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_029

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Atrophy, Brown Hyperplasia, Nos Myelosclerosis Mineralization
Bone marrow		Cytoplasmic Vacuolization
Brain		Hyperplasia, Lymphoid
Liver		Cyst, Nos
Lymph node	Mandibular Lymph Node	Lymphocytic Inflammatory Infiltrate
Ovary		Hyperplasia, Cystic
Unspecified	Multiple Organs Nos	
Uterus	Endometrium	

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_030

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
	Cortex Nos	Hypertrophy, Focal
Bone marrow		Myelosclerosis
Brain		Mineralization
Intestine Small	Jejunum	Hyperplasia, Lymphoid
Liver		Cytoplasmic Vacuolization
Lymph node	Mesenteric Lymph Node	Hemorrhage
Ovary		Cyst, Nos
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_031

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Unspecified

Multiple Organs Nos

Congestion, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_032

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Kidney		Metaplasia, Osseous
Liver		Cytoplasmic Vacuolization
Pituitary gland		Hyperplasia, Chromophobe Cell
Thymus		Cyst, Nos
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_033

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Atrophy, Brown

Cortex Nos

Cyst, Nos

Bone marrow

Myelosclerosis

Brain

Mineralization

Kidney

Lymphocytic Inflammatory Infiltrate

Liver

Cytoplasmic Vacuolization

Ovary

Mineralization

Uterus

Endometrium

Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_034

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos	Atrophy, Brown Hypertrophy, Focal
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
Pituitary gland		Hyperplasia, Chromophobe Cell
Thymus		Cyst, Nos
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_035

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Brain		Mineralization
Kidney		Infarct, Nos
		Nephrosis, Nos
Thyroid		Inflammation, Pyogranulomatous
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
	Multiple Organs Nos	Myelopoiesis
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_036

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Liver		Cytoplasmic Vacuolization
Lung		Alveolar/Bronchiolar Adenoma
Spleen		Hyperplasia, Lymphoid
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_037

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
	Cortex Nos	Degeneration, Ballooning
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
Lymph node	Mesenteric Lymph Node	Hemorrhage
	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pituitary gland		Chromophobe Adenoma
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_038

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Clear-Cell Change
		Cytoplasmic Vacuolization
Ovary		Cyst, Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_039

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Brain		Mineralization
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Cyst, Nos

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_040

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
Pancreas	Acinus	Atrophy, Nos
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Cyst, Nos

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_041

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
		Necrosis, Nos
Spleen		Hematopoiesis
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
		Sarcoma, Nos
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_042

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hypertrophy, Focal
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
		Granuloma, Nos
Pancreas	Acinus	Atrophy, Nos
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
	Mediastinum Nos	Necrosis, Fat
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_043

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Bone marrow		Myelosclerosis
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Vacuolization
Thyroid		Follicular-Cell Adenoma
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_044

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Clear-Cell Change
		Cytoplasmic Vacuolization
Lymph node	Renal Lymph Node	Hyperplasia, Lymphoid
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Hematopoiesis
	Multiple Organs Nos	Lymphoma, Nos-Malignant
	Mediastinum Nos	Necrosis, Fat
Uterus	Endometrium	Cyst, Nos
		Hemangioma

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_045

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Intestine Small	Jejunum	Inflammation, Acute
Ovary		Cyst, Nos
Spleen		Hemosiderosis
Stomach		Inflammation, Acute/Chronic
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_046

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
Ovary		Cyst, Nos
Pituitary gland		Hyperplasia, Chromophobe Cell
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_047

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Brain  
Kidney  
Unspecified

Multiple Organs Nos  
Multiple Organs Nos  
Multiple Organs Nos

Mineralization  
Necrosis, Nos  
Bacterial Septicemia  
Congestion, Nos  
Inflammation, Acute

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_048

**TRT#:** 1  
**DOSE:** 600.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
Ovary		Cyst, Nos
Thymus		Cyst, Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_049

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Liver		Cytoplasmic Vacuolization
		Necrosis, Nos
Lymph node	Mesenteric Lymph Node	Hemorrhage
Skeletal muscle	Neck	Sarcoma, Nos
Skin	Thorax	Inflammation, Acute/Chronic
	Thorax	Ulceration, Diffuse
Spleen		Hyperplasia, Lymphoid
Unspecified	Multiple Organs Nos	Sarcoma, Nos, Metastatic
Uterus		Hydrometra
	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_050

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Kidney		Metaplasia, Osseous
Liver		Angiectasis
		Clear-Cell Change
Pituitary gland		Hyperplasia, Chromophobe Cell
Stomach	Forestomach	Squamous Cell Papilloma
Thymus		Cyst, Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_001

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Blood vessel  
Bone marrow  
Liver

Cortex Nos  
Anterior Mediastinal Artery

Atrophy, Brown  
Inflammation, Fibrinoid  
Myelosclerosis  
Clear-Cell Change  
Cytoplasmic Vacuolization  
Hepatocellular Adenoma  
Cyst, Nos  
Lymphocytic Inflammatory Infiltrate  
Hyperplasia, Cystic

Thymus  
Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_002

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Ovary		Cyst, Nos
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_003

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hypertrophy, Focal
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Ovary		Cyst, Nos
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_004

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Lung		Bronchiectasis
		Inflammation, Chronic
Ovary		Cyst, Nos
Thymus		Cyst, Multiple
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_005

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Ovary		Cyst, Nos
Unspecified	Multiple Organs Nos	Hyperplasia, Lymphoid
	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_006

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Lung		Hemorrhage
Ovary		Cyst, Nos
Pancreas		Cyst, Nos
Pituitary gland		Hyperplasia, Chromophobe Cell
Spleen		Hemosiderosis
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus		Endometrial Stromal Polyp
	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_007

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cyst, Nos
		Cytoplasmic Vacuolization
Pancreas	Acinus	Atrophy, Nos
Stomach	Fundal Gland	Dilatation, Nos
Thymus		Cyst, Nos
Uterus		Endometrial Stromal Polyp
	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_008

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Brain		Mineralization
Liver		Necrosis, Nos
Skin		Edema, Nos
Unspecified	Multiple Organs Nos	Leukemia, Granulocytic
	Multiple Organs Nos	Thrombosis, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_009

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Kidney		Nephrosis, Nos
Liver		Clear-Cell Change
Mammary gland		Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Parathyroid gland		Cyst, Nos
Spleen		Hyperplasia, Lymphoid
Stomach		Squamous Cell Carcinoma
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_010

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Brain		Mineralization
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Vacuolization
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_011

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
		Lymphocytic Inflammatory Infiltrate
Stomach		Inflammation, Acute
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Hyperplasia, Lymphoid
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_012

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Capsule Medulla	Atrophy, Brown Hyperplasia, Nos Hyperplasia, Nos Myelosclerosis
Bone marrow		Cytoplasmic Vacuolization
Liver		Chromophobe Adenoma
Pituitary gland		Hyperplasia, Epithelial
Stomach		Hyperplasia, Lymphoid
Unspecified	Multiple Organs Nos Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus		Leiomyoma

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_013

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Pituitary gland		Hyperplasia, Chromophobe Cell
Stomach	Fundal Gland	Dilatation, Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus		Adenoma, Nos
	Endometrium	Cyst, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_014

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Brain		Mineralization
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid
Kidney		Nephrosis, Nos
Liver		Hepatocytomegaly
Lymph node	Mesenteric Lymph Node	Hyperplasia, Lymphoid
Ovary		Cyst, Hemorrhagic
Pituitary gland		Chromophobe Adenoma
Spleen		Hematopoiesis
Stomach		Inflammation, Acute
Thyroid		Hyperplasia, Follicular Cell
Uterus	Endometrium	Cyst, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_015

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_016

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hypertrophy, Focal
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Mammary gland		Hyperplasia, Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_017

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Brain		Mineralization
Pancreas	Acinus	Hypoplasia, Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
	Multiple Organs Nos	Lymphoma, Histiocytic-Malignant Type
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_018

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Myelosclerosis
Kidney		Metaplasia, Osseous
Liver		Cytoplasmic Vacuolization
		Hepatocellular Adenoma
		Hepatocytomegaly
Mammary gland		Dilatation, Ducts
Ovary	Mesovarium	Necrosis, Fat
Pituitary gland		Chromophobe Adenoma
Skin	Tail	Hemorrhage
Unspecified	Multiple Organs Nos	Hyperplasia, Lymphoid
	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_019

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Clear-Cell Change
		Cytoplasmic Vacuolization
Skin	Lower Leg	Keratoacanthoma
Thymus		Cyst, Nos
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_020

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_021

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Kidney		Metaplasia, Osseous
Liver		Cytoplasmic Vacuolization
Lymph node	Pancreatic Lymph Node	Congestion, Nos
Mammary gland		Adenocarcinoma, Nos
Thymus		Cyst, Nos
Unspecified	Multiple Organs Nos	Hyperplasia, Lymphoid
	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Nos

PRIMARY CAUSE OF DEATH

-



**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_022

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland		Pheochromocytoma
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
Ovary		Cyst, Nos
Pituitary gland		Hyperplasia, Chromophobe Cell
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_023

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Bone marrow  
Parathyroid gland  
Unspecified  
Uterus

Cortex Nos  
  
Multiple Organs Nos  
Endometrium

Atrophy, Brown  
Myelosclerosis  
Cyst, Nos  
Lymphoma, Nos-Malignant  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_024

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
		Necrosis, Nos
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Cyst, Nos

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_025

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Clear-Cell Change
		Cytoplasmic Vacuolization
Pancreas	Acinus	Atrophy, Nos
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_026

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown Pheochromocytoma
Bone marrow		Myelosclerosis
Brain		Mineralization
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Vacuolization
Pituitary gland		Chromophobe Adenoma
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_027

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Clear-Cell Change
		Cytoplasmic Vacuolization
Lung	Cartilage	Mineralization
Spleen		Hemosiderosis
Thymus		Cyst, Nos
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_028

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Clear-Cell Change
		Cytoplasmic Vacuolization
Lymph node	Mesenteric Lymph Node	Lymphoma, Nos-Malignant
Pancreas	Acinus	Hyperplasia, Nos
Thymus		Hyperplasia, Lymphoid
Uterus	Endometrium	Hyperplasia, Cystic
	Ligament	Necrosis, Fat

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_029

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Pancreas		Cytoplasmic Vacuolization
Pituitary gland		Chromophobe Adenoma
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Hyperplasia, Lymphoid
	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_030

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
Pituitary gland		Angiectasis
Spleen		Hyperplasia, Chromophobe Cell
Unspecified	Multiple Organs Nos	Hemosiderosis
Uterus	Endometrium	Lymphocytic Inflammatory Infiltrate
		Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_033

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Brain		Mineralization
Intestine Small	Jejunum	Inflammation, Acute Necrotizing
Lung		Histiocytosis
Ovary		Lymphocytic Inflammatory Infiltrate
		Atrophy, Nos
		Cyst, Nos
Pituitary gland		Chromophobe Adenoma
Spleen		Hematopoiesis
Thymus		Cyst, Nos
Unspecified	Multiple Organs Nos	Hyperplasia, Lymphoid
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_035

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Intestine Small	Jejunum	Hyperplasia, Lymphoid
Liver		Inflammation, Acute
Lung		Alveolar/Bronchiolar Adenoma
Ovary		Cyst, Nos
Pituitary gland		Hyperplasia, Chromophobe Cell
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_036

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Ovary		Cyst, Nos
Pancreas	Acinus	Atrophy, Nos
		Dilatation, Ducts
Thymus		Cyst, Nos
Thyroid		Cyst, Follicular Nos
Unspecified		Cyst, Epidermal Inclusion
		Inflammation, Acute
	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_037

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Kidney		Metaplasia, Osseous
Liver		Cytoplasmic Vacuolization
Ovary		Cyst, Hemorrhagic
Pituitary gland		Hyperplasia, Chromophobe Cell
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_038

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
		Lymphocytic Inflammatory Infiltrate
Spleen		Hemosiderosis
Unspecified	Multiple Organs Nos	Hyperplasia, Lymphoid
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_039

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Clear-Cell Change
		Cytoplasmic Vacuolization
Ovary		Cyst, Nos
Pituitary gland		Hyperplasia, Chromophobe Cell
Spleen		Hyperplasia, Lymphoid
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_040

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Liver		Cytoplasmic Vacuolization
Lung		Alveolar/Bronchiolar Adenoma
Pituitary gland		Hypertrophy, Focal
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Hydrometra Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_041

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
Spleen		Hemosiderosis
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_042

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Blood vessel	Aorta Nos	Mineralization
	Pulmonary Vein Nos	Mineralization
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Vacuolization
Pituitary gland		Angiectasis
Urinary bladder		Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic
	Endometrium	Inflammation, Acute

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_043

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Ovary		Cyst, Nos
Spleen		Hyperplasia, Lymphoid
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_044

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Kidney		Glomerulonephritis, Nos
		Infarct, Nos
Liver		Hepatocellular Carcinoma
Ovary		Cyst, Hemorrhagic
Spleen		Hematopoiesis
Unspecified	Multiple Organs Nos	Congestion, Nos
Urinary bladder		Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Cyst, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_045

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Bone marrow		Myelosclerosis
Kidney		Infarct, Nos
Liver		Cytoplasmic Vacuolization
		Hepatocellular Carcinoma
Mammary gland		Hyperplasia, Nos
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Hyperplasia, Lymphoid
	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_046

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Lung		Alveolar/Bronchiolar Carcinoma
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_047

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Lung		Hemorrhage
Pituitary gland		Hyperplasia, Chromophobe Cell
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_048

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
		Inflammation, Acute
Ovary		Cyst, Nos
Pituitary gland		Chromophobe Adenoma
Thymus		Cyst, Nos
Thyroid		Hyperplasia, Follicular Cell
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_049

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Liver		Cytoplasmic Vacuolization
Ovary		Cyst, Nos
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Cyst, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_050

**TRT#:** 2  
**DOSE:** 300.0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Spleen		Hyperplasia, Lymphoid
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_001

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Mammary gland		Hyperplasia, Nos
Ovary		Cyst, Nos
Pituitary gland		Hyperplasia, Chromophobe Cell
Thymus		Cyst, Nos
Unspecified	Multiple Organs Nos	Hyperplasia, Lymphoid
	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_002

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Bone marrow		Myelosclerosis
Liver		Clear-Cell Change
		Lymphocytic Inflammatory Infiltrate
Ovary		Cyst, Nos
Spleen		Hemosiderosis
Stomach		Edema, Nos
Uterus	Endometrium	Cyst, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_003

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Kidney		Infarct, Nos
Liver		Cytoplasmic Vacuolization
Mammary gland		Hyperplasia, Nos
Pituitary gland		Hyperplasia, Chromophobe Cell
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_004

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
		Hepatocellular Carcinoma
Ovary		Cyst, Nos
Pituitary gland		Hyperplasia, Chromophobe Cell
Thymus		Congestion, Nos
Unspecified	Adipose Tissue	Hemangioma
	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_005

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Blood vessel	Pulmonary Vein Nos	Mineralization
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
Spleen		Hemosiderosis
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_006

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Bone marrow  
Liver

Cortex Nos

Atrophy, Brown  
Myelosclerosis  
Clear-Cell Change  
Cytoplasmic Vacuolization

Spleen  
Uterus

Endometrium

Hemosiderosis  
Cyst, Nos

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_007

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Clear-Cell Change
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
	Mediastinum Nos	Necrosis, Fat
Uterus		Hemangioma
	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_008

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Bone marrow  
Kidney  
Liver  
  
Ovary  
Thyroid  
Uterus

Endometrium

Angiectasis  
Myelosclerosis  
Metaplasia, Osseous  
Cytoplasmic Vacuolization  
Hepatocellular Carcinoma  
Cyst, Nos  
Hyperplasia, Follicular Cell  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_009

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Pancreas	Acinus	Atrophy, Nos
		Dilatation, Ducts
Pituitary gland		Hyperplasia, Chromophobe Cell
Spleen		Hemosiderosis
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Cyst, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_010

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
		Lymphocytic Inflammatory Infiltrate
Lymph node	Mandibular Lymph Node	Edema, Nos
Mammary gland		Hyperplasia, Nos
		Lactation
Ovary		Cyst, Nos
Pituitary gland		Chromophobe Adenoma
Uterus	Endometrium	Cyst, Nos

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_011

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Liver		Clear-Cell Change
Pituitary gland		Hyperplasia, Chromophobe Cell
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_012

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Myelosclerosis
Liver		Clear-Cell Change
		Cytoplasmic Vacuolization
Pituitary gland		Hyperplasia, Chromophobe Cell
Stomach		Mineralization
Thymus		Cyst, Nos
Thyroid		Cyst, Follicular Nos
Unspecified	Tail	Fibrous Osteodystrophy
	Multiple Organs Nos	Hyperplasia, Lymphoid
	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_013

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Bone marrow		Myelosclerosis
Heart		Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Vacuolization
		Necrosis, Nos
Lung		Alveolar/Bronchiolar Carcinoma
		Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_014

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nodular
Bone marrow		Myelosclerosis
Kidney		Metaplasia, Osseous
Liver		Cytoplasmic Vacuolization
Pituitary gland		Chromophobe Adenoma
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Inflammation, Acute
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_015

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Ovary		Cyst, Hemorrhagic
Pituitary gland		Chromophobe Adenoma
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_016

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Pigmentation, Nos
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Ovary		Cyst, Nos
Thymus		Cyst, Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_017

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Kidney	Tubule	Pigmentation, Nos
Liver		Clear-Cell Change
		Hepatocellular Adenoma
Ovary		Cyst, Hemorrhagic
		Mineralization
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_018

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Intestine Small	Jejunum	Hyperplasia, Lymphoid
Kidney		Nephrosis, Nos
Lymph node	Mesenteric Lymph Node	Hyperplasia, Lymphoid
Pancreas		Inflammation, Acute Necrotizing
Parathyroid gland		Cyst, Nos
Thyroid		Follicular-Cell Adenoma
Unspecified	Groin	Abscess, Nos
	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Cyst, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_019

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Lung		Alveolar/Bronchiolar Adenoma
		Histiocytosis
Spleen		Hemosiderosis
Thymus		Cyst, Nos
		Hyperplasia, Lymphoid
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Cyst, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_020

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Bone marrow  
Liver  
Mammary gland  
Ovary  
Pituitary gland  
Thyroid  
Unspecified

Cortex Nos

Multiple Organs Nos

Atrophy, Brown  
Myelosclerosis  
Cytoplasmic Vacuolization  
Hyperplasia, Nos  
Hemangioma  
Chromophobe Adenoma  
Cyst, Follicular Nos  
Lymphocytic Inflammatory Infiltrate

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_021

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hypertrophy, Focal
Bone marrow		Myelosclerosis
Brain		Mineralization
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Vacuolization
Ovary		Cyst, Nos
Spleen		Hyperplasia, Lymphoid
Stomach		Inflammation, Acute
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_022

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Lung

Cortex Nos

Hypertrophy, Focal  
Bronchiectasis  
Histiocytosis

Skin

Neck  
Neck

Fibrosis  
Hyperkeratosis

Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

Lymphoma, Nos-Malignant  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_023

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Brain		Mineralization
Heart		Fibrosis
Intestine Small	Duodenum	Adenomatous Polyp, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Vacuolization
Lung		Alveolar/Bronchiolar Carcinoma
		Histiocytosis
Lymph node	Mediastinal Lymph Node	Edema, Nos
Ovary		Angiectasis
		Cyst, Nos
Pituitary gland		Chromophobe Adenoma
Spleen		Hematopoiesis
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_024

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Clear-Cell Change
		Cytoplasmic Vacuolization
Lung		Alveolar/Bronchiolar Adenoma
		Hemorrhage
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_025

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Clear-Cell Change
Pituitary gland		Hyperplasia, Chromophobe Cell
Thymus		Cyst, Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_026

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Clear-Cell Change
Pituitary gland		Chromophobe Adenoma
Unspecified	Multiple Organs Nos	Lymphoma, Mixed-Malignant Type
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:16  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_027

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos Medulla	Atrophy, Brown Degeneration, Ballooning Hyperplasia, Nos Myelosclerosis Cytoplasmic Vacuolization Cyst, Nos Chromophobe Adenoma Hyperplasia, Lymphoid Follicular-Cell Adenoma Hyperplasia, Follicular Cell Lymphocytic Inflammatory Infiltrate
Bone marrow		
Liver		
Ovary		
Pituitary gland		
Spleen		
Thyroid		
Unspecified	Multiple Organs Nos	
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_028

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Bone marrow  
Liver

Myelosclerosis  
Clear-Cell Change  
Cytoplasmic Vacuolization  
Hepatocellular Adenoma  
Adenocarcinoma, Nos  
Cyst, Nos  
Hyperplasia, Nos

Mammary gland  
Ovary  
Uterus

Endometrium

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_029

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Bone marrow  
Liver  
Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

Myelosclerosis  
Hepatocellular Adenoma  
Lymphocytic Inflammatory Infiltrate  
Cyst, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_030

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nodular
Bone marrow		Myelosclerosis
Liver		Cytoplasmic Vacuolization
Ovary		Papillary Cystadenoma, Nos
Pituitary gland		Hyperplasia, Chromophobe Cell
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Cyst, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_031

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Accidentally Killed

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Liver

Uterus

Endometrium

Congestion, Nos

Cytoplasmic Vacuolization

Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_032

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
Thyroid		Papillary Cystadenoma, Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_033

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
		Hepatocellular Carcinoma
Ovary		Cyst, Nos
Pituitary gland		Chromophobe Adenoma
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_034

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Intestine Small	Mesentery Nos	Necrosis, Fat
Liver		Cytoplasmic Vacuolization
		Hematopoiesis
Pituitary gland		Cyst, Colloid
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_035

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Bone marrow  
Brain  
Unspecified  
Uterus

Cortex Nos

Multiple Organs Nos

Endometrium

Atrophy, Brown  
Myelosclerosis  
Mineralization  
Lymphoma, Histiocytic-Malignant Type  
Angiectasis  
Endometrial Stromal Polyp  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_036

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
		Hepatocellular Adenoma
Lung		Lymphocytic Inflammatory Infiltrate
Thyroid		Cyst, Follicular Nos
Uterus	Endometrium	Hyperplasia, Cystic
		Leiomyosarcoma

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_037

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Atrophy, Brown

Bone marrow

Cortex Nos

Hypertrophy, Focal

Liver

Myelosclerosis

Cytoplasmic Vacuolization

Hypoplasia, Nos

Inflammation, Granulomatous

Salivary gland

Atrophy, Nos

Unspecified

Multiple Organs Nos

Lymphocytic Inflammatory Infiltrate

Uterus

Endometrium

Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_038

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
	Hippocampus	Necrosis, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Vacuolization
Spleen		Hemosiderosis
Thymus		Cyst, Nos
		Depletion, Lymphoid
Thyroid		Cyst, Thyroglossal Duct
Uterus		Hydrometra
	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_039

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Brain		Mineralization
Heart		Inflammation, Chronic
	Atrium	Thrombosis, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Vacuolization
Lung		Histiocytosis
Ovary	Mesovarium	Cyst, Nos
	Mesovarium	Lymphocytic Inflammatory Infiltrate
Pituitary gland		Chromophobe Adenoma
Thyroid		Hyperplasia, Epithelial
Unspecified	Multiple Organs Nos	Congestion, Nos
	Multiple Organs Nos	Hyperplasia, Lymphoid
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_040

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Bone marrow  
Brain  
Liver  
Lung  
Pituitary gland

Cortex Nos

Atrophy, Brown  
Myelosclerosis  
Mineralization  
Clear-Cell Change  
Lymphocytic Inflammatory Infiltrate  
Angiectasis  
Hyperplasia, Chromophobe Cell  
Hyperplasia, Cystic

Uterus

Endometrium

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_041

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Bone marrow  
Brain  
Unspecified  
Uterus

Cortex Nos  
  
Multiple Organs Nos  
Endometrium

Atrophy, Brown  
Myelosclerosis  
Mineralization  
Lymphoma, Nos-Malignant  
Cyst, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_042

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hypertrophy, Focal
Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
		Cytoplasmic Vacuolization
Ovary		Cyst, Nos
Thymus		Cyst, Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_043

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Bone marrow  
Liver

Cortex Nos

Atrophy, Brown  
Myelosclerosis  
Clear-Cell Change  
Cytoplasmic Vacuolization

Skin  
Spleen  
Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

Inflammation, Acute  
Hemosiderosis  
Lymphocytic Inflammatory Infiltrate  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_044

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
Lung		Hemorrhage
Pituitary gland		Chromophobe Adenoma
Stomach	Fundal Gland	Dilatation, Nos
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_045

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Bone marrow  
Kidney  
Liver

Cortex Nos

Atrophy, Brown  
Myelosclerosis  
Metaplasia, Osseous  
Clear-Cell Change  
Cytoplasmic Vacuolization  
Lymphocytic Inflammatory Infiltrate  
Hyperplasia, Cystic

Lung  
Uterus

Endometrium

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_046

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos	Atrophy, Brown Hypertrophy, Focal
Bone marrow		Myelosclerosis
Liver		Inflammation, Acute
Lung		Hemorrhage
Ovary		Cyst, Nos
Pituitary gland		Hyperplasia, Chromophobe Cell
Spleen		Hemosiderosis
Stomach	Fundal Gland	Dilatation, Nos
Thymus		Cyst, Nos
Thyroid		Cystadenoma, Nos
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_047

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Blood vessel		Inflammation, Fibrinoid
Gall bladder		Inflammation, Acute Necrotizing
Kidney		Glomerulonephritis, Nos
		Nephrosis, Hydro
Lung		Histiocytosis
Spleen		Hematopoiesis
		Thrombosis, Nos
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Cyst, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_048

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Atrophy, Brown
Bone marrow		Myelosclerosis
Brain		Mineralization
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Vacuolization
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_049

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Brain  
Gall bladder

Cortex Nos

Atrophy, Brown  
Mineralization  
Inflammation, Granulomatous  
Pigmentation, Nos

Unspecified

Multiple Organs Nos

Hematopoiesis

Uterus

Multiple Organs Nos

Lymphoma, Undifferentiated-Malignant Type

Endometrium

Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54740  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Mouse/B6C3F1

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

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:34:17  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_050

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Bone marrow		Myelosclerosis
Brain		Mineralization
Liver		Cytoplasmic Vacuolization
Spleen		Hemosiderosis
Unspecified	Multiple Organs Nos	Lymphocytic Inflammatory Infiltrate
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**\*\* END OF REPORT \*\***