

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

<b>C Number:</b>	C61234B
<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>	Male

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
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**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_011

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland  
Intestine Large  
Kidney

Medulla  
Gastrointestinal Tract  
Glomerulus

Liver  
Pituitary gland

Centrilobular

Spleen  
Urinary bladder

Hyperplasia, Nos  
Postmortem Change  
Amyloidosis  
Nephropathy  
Congestion, Passive  
Cytoplasmic Vacuolization  
Degeneration, Hyaline  
Hypoplasia, Lymphoid  
Calculus, Unknown Gross Or Micro

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_012

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland  
Heart  
Intestine Large  
Kidney

Left Atrium Nos  
Gastrointestinal Tract  
Glomerulus

Lung  
Seminal vesicle  
Thyroid

Alveoli  
Follicle

Neuroblastoma  
Thrombus, Organized  
Postmortem Change  
Amyloidosis  
Nephropathy  
Histiocytosis  
Inflammation, Acute Suppurative  
Atrophy, Nos

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_013

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis Hemorrhage
Gall bladder		Edema, Nos
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Gastrointestinal Tract	Postmortem Change
Liver	Centrilobular	Congestion, Passive
Lung	Alveoli	Histiocytosis
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_021

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis
	Cortex Nos	Dilatation, Nos
Epididymis		Aspermatogenesis
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cyst, Multiple
		Necrosis, Focal
Lung		Inflammation, Interstitial
Prostate		Inflammation, Acute Suppurative
Seminal vesicle		Inflammation, Acute
Skin		Inflammation, Chronic
Testis		Spermatogenic Arrest

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_022

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland

Medulla

Cortical Adenoma  
Hyperplasia, Focal  
Cast, Nos  
Granuloma, Spermatic  
Nephropathy  
Histiocytosis  
Lipoidosis

Epididymis

Kidney

Lung

Pancreas

Alveoli

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_023

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Intestine Large

Pericolonic Tissue, Colon  
Gastrointestinal Tract

Granuloma, Pyogenic  
Postmortem Change

Kidney

Papilla

Mineralization

Spleen

Hypoplasia, Lymphoid

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_031

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Lipoidosis
Epididymis		Aspermatogenesis
Intestine Small	Ileum	Inflammation, Acute
Kidney	Glomerulus	Amyloidosis
Liver	Bile Duct	Dilatation, Nos
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Pituitary gland		Cyst, Multiple
		Cytoplasmic Vacuolization
Testis		Spermatogenic Arrest
Thyroid		C-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_032

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Epididymis		Abscess, Nos
		Cast, Nos
Kidney		Nephropathy
Liver	Hepatic Lobule	Cytoplasmic Vacuolization
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Skin		Inflammation, Chronic
Testis		Spermatogenic Arrest
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis
Urinary bladder		Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_033

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Epididymis		Aspermatogenesis
Heart	Mitral Valve Nos	Inflammation, Chronic
	Ventricle	Thrombosis, Nos
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Pancreas		Lipoidosis
Spleen		Hyperplasia, Lymphoid
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_041

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Bone marrow  
Intestine Large

Cecum, Colon  
Gastrointestinal Tract  
Gastrointestinal Tract

Lymph node  
Pancreas  
Seminal vesicle  
Spleen  
Thymus

Congestion, Nos  
Abscess, Nos  
Inflammation, Nos  
Postmortem Change  
Hyperplasia, Nos  
Lipoidosis  
Retention Of Content  
Atrophy, Nos  
Involution, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_042

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

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**OBSERVATIONS**

Heart  
Intestine Large  
Liver

Left Atrium Nos  
Rectum

Thrombosis, Nos  
Hyperplasia, Polypoid  
Congestion, Passive  
Cyst, Nos  
Necrosis, Focal  
Inflammation, Interstitial  
Lipoidosis  
Adenoma, Nos  
Hematopoiesis

Lung  
Pancreas  
Parathyroid gland  
Spleen

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_043

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
	Medulla	Hyperplasia, Nos
Blood vessel	Brachioceph. Artery	Embolism, Nos
Epididymis		Aspermatogenesis
		Cast, Nos
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cyst, Multiple
Pancreas	Islets	Islet-Cell Adenoma
Spleen		Hypoplasia, Lymphoid
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis
Urinary bladder		Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_051

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland		Cortical Carcinoma
		Neuroblastoma
Epididymis		Abscess, Nos
		Aspermatogenesis
Kidney		Nephropathy
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas	Islets	Islet-Cell Adenoma
		Lipoidosis
Prostate		Abscess, Nos
Seminal vesicle		Abscess, Nos
Skin		Inflammation, Chronic
Testis		Spermatogenic Arrest
Thymus		Involution, Nos
Urinary bladder		Hyperplasia, Papillary
		Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_052

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

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**OBSERVATIONS**

Pancreas

Inflammation, Nos

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_053

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Spleen  
Testis  
Unspecified

Multiple Organs Nos

Hematopoiesis  
Spermatogenic Arrest  
Postmortem Change

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_061

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Kidney  
Liver  
Testis

Nephropathy  
Necrosis, Focal  
Spermatogenic Arrest

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_062

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland  
Epididymis

Cortex Nos

Amyloidosis  
Aspermatogenesis  
Cast, Nos

Intestine Large  
Kidney  
Lymph node  
Pancreas  
Pituitary gland

Gastrointestinal Tract

Postmortem Change  
Nephropathy

Skin  
Testis

Mesenteric Lymph Node

Hyperplasia, Nos  
Lipoidosis  
Cytoplasmic Vacuolization  
Degeneration, Hyaline  
Inflammation, Chronic  
Spermatogenic Arrest

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_063

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Intestine Large	Gastrointestinal Tract	Inflammation, Acute Suppurative
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Nos
	Periportal	Lymphocytic Inflammatory Infiltrate
Lung		Abscess, Nos
		Congestion, Nos
Lymph node		Hyperplasia, Nos
Spleen	Red Pulp	Hematopoiesis
		Hypoplasia, Lymphoid
Unspecified	Multiple Organs Nos	Amyloidosis
	Multiple Organs Nos	Postmortem Change

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:42

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_081

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis
	Cortex Nos	Hyperplasia, Focal
Gall bladder		Retention Of Content
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cyst, Nos
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Pancreas	Islets	Islet-Cell Adenoma
		Lipoidosis
Spleen		Hypoplasia, Lymphoid
Stomach	Cardiac Stomach	Acanthosis
	Fundus	Erosion
	Cardiac Stomach	Hyperkeratosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:42

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_082

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Epididymis

Abscess, Nos

Aspermatogenesis

Cast, Nos

Mineralization

Heart

Left Atrium Nos

Thrombosis, Nos

Intestine Small

Ileum

Regeneration, Incomplete

Kidney

Nephropathy

Liver

Cirrhosis, Portal

Cyst, Nos

Lymph node

Mesenteric Lymph Node

Hyperplasia, Nos

Peritoneum

Inflammation, Suppurative

Spleen

Hypoplasia, Nos

Stomach

Cardiac Stomach

Acanthosis

Testis

Cardiac Stomach

Hyperkeratosis

Unspecified

Spermatogenic Arrest

Abscess, Nos

Multiple Organs Nos

Amyloidosis

Abdominal Viscera

Hernia, Nos

Urinary bladder

Hyperplasia, Epithelial

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_083

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland  
Heart  
Kidney  
Lung  
Lymph node  
Pancreas  
Stomach  
  
Unspecified

Left Atrium Nos  
  
Alveoli  
Cervical Lymph Node Nos

Pheochromocytoma  
Thrombus, Organized  
Nephropathy  
Histiocytosis  
Hyperplasia, Nos  
Lipoidosis  
Acanthosis  
Hyperkeratosis  
Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_091

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Epididymis		Granuloma, Spermatic
Kidney		Postmortem Change
Pancreas		Inflammation, Nos
Peritoneum		Inflammation, Nos
Urinary bladder	Submucosa	Edema, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_092

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis
Epididymis		Cortical Carcinoma
Kidney		Aspermatogenesis
Liver		Cast, Nos
Prostate		Nephropathy
Testis		Inflammation, Acute Focal
Urinary bladder		Inflammation, Chronic Focal
		Spermatogenic Arrest
		Hyperplasia, Epithelial

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_093

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Bone marrow		Aplasia, Hematopoietic
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney	Papilla	Mineralization
Lung	Alveoli	Congestion, Nos
Lymph node		Hyperplasia, Nos
Spleen		Amyloidosis
Thymus		Involution, Nos
Thyroid		C-Cell Carcinoma
Urinary bladder		Hyperplasia, Papillary

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:42

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_101

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland

Medulla

Hemorrhage

Gall bladder

Hyperplasia, Focal

Heart

Left Atrium Nos

Edema, Nos

Intestine Large

Thrombus, Organized

Kidney

Gastrointestinal Tract

Postmortem Change

Glomerulus

Amyloidosis

Liver

Centrilobular

Nephropathy

Congestion, Passive

Lung

Necrosis, Focal

Pituitary gland

Pneumonia, Interstitial Chronic

Cytoplasmic Vacuolization

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_102

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Intestine Large

Cecum, Colon

Inflammation, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_103

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Pheochromocytoma
Gall bladder		Edema, Nos
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
Lung	Alveoli	Histiocytosis
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
		Degeneration, Hyaline
Skin		Acariasis
		Inflammation, Chronic
Thymus		Involution, Nos
Thyroid		Cyst, Colloid
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_111

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Kidney	Glomerulus	Amyloidosis Nephropathy
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Postmortem Change
Urinary bladder		Hyperplasia, Papillary

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_112

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cyst, Multiple
Lung	Alveoli	Histiocytosis
Spleen		Hyperplasia, Lymphoid
Thymus		Involution, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_121

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Bone marrow		Aplasia, Hematopoietic
Intestine Large	Cecum, Colon	Postmortem Change
Prostate		Inflammation, Acute Suppurative
Skin		Inflammation, Chronic
Stomach	Fundus	Erosion
Testis		Spermatogenic Arrest

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_122

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland  
Intestine Large

Cortex Nos  
Colon  
Large Intestine, Colon  
Intestinal Tract  
Centrilobular

Liver

Lung  
Lymph node  
Pancreas  
Pituitary gland  
Spleen  
Thymus  
Thyroid

Alveoli

Amyloidosis  
Hyperplasia, Polypoid  
Inflammation, Acute Diffuse  
Postmortem Change  
Congestion, Passive  
Cyst, Nos  
Histiocytosis  
Hyperplasia, Nos  
Lipoidosis  
Cytoplasmic Vacuolization  
Hematopoiesis  
Involution, Nos  
Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:42

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_123

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Blood vessel  
Heart  
Intestine Large  
Kidney  
Thymus  
Thyroid

Cortex Nos  
Ascending Aorta  
Base Of Heart  
Intestinal Tract  
  
Follicle

Amyloidosis  
Arteriosclerosis, Nos  
Periarteritis  
Postmortem Change  
Nephropathy  
Involution, Nos  
Atrophy, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_131

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Hemorrhage
		Mineralization
Intestine Large	Gastrointestinal Tract	Inflammation, Suppurative
	Gastrointestinal Tract	Postmortem Change
Kidney	Glomerulus	Amyloidosis
		Nephropathy
Liver	Centrilobular	Congestion, Nos
		Inflammation, Acute Hemorrhagic
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Prostate		Retention Of Content
Seminal vesicle		Retention Of Content
Spleen		Atrophy, Nos
		Hypoplasia, Nos
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Thymus		Involution, Nos

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_132

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Amyloidosis
	Cortex Nos	Hyperplasia, Focal
Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
	Pelvis	Nephrosis, Hydro
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung		Pneumonia, Interstitial Chronic
Prostate		Inflammation, Chronic
Seminal vesicle		Inflammation, Chronic
Spleen		Atrophy, Nos
Testis		Spermatogenic Arrest
Thyroid	Follicle	Atrophy, Nos
		Cyst, Colloid
Urinary bladder		Hyperplasia, Papillary

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_133

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Bone marrow  
Intestine Large  
  
Liver  
Lung  
Lymph node  
Pancreas  
Prostate  
Seminal vesicle  
Spleen

Gastrointestinal Tract  
Gastrointestinal Tract  
Portal Tract

Congestion, Nos  
Inflammation, Suppurative  
Postmortem Change  
Lymphocytic Inflammatory Infiltrate  
Congestion, Nos  
Hyperplasia, Nos  
Lipoidosis  
Retention Of Content  
Retention Of Content  
Atrophy, Nos  
Hypoplasia, Nos

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_152

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Epididymis		Aspermatogenesis
		Cast, Nos
Heart		Dilatation, Nos
	Left Atrium Nos	Thrombus, Organized
Kidney	Cortex	Adenocarcinoma, Nos
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pituitary gland		Cytoplasmic Vacuolization
Spleen		Hyperplasia, Lymphoid
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Thymus		Involution, Nos

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:42

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_153

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Hepatic Lobule	Abscess, Nos
		Cirrhosis, Portal
	Bile Duct	Dilatation, Nos
Lung		Inflammation, Interstitial
Pancreas		Lipoidosis
Prostate		Hyperplasia, Epithelial
Seminal vesicle		Inflammation, Acute Suppurative
Spleen		Hypoplasia, Nos
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_161

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

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**OBSERVATIONS**

Heart	Left Atrium Nos	Thrombus, Organized
Liver	Centrilobular	Congestion, Passive Cyst, Nos Necrosis, Focal
Lung	Alveoli	Histiocytosis
Pituitary gland		Cytoplasmic Vacuolization

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_162

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Intestine Large  
Kidney  
Stomach

Intestinal Tract

Postmortem Change  
Nephropathy  
Inflammation, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_173

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
		Cast, Nos
Intestine Large	Gastrointestinal Tract	Postmortem Change
Intestine Small	Ileum	Inflammation, Acute
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cyst, Multiple
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Thymus		Involution, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:42

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_182

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Epididymis

Intestine Large

Liver

Pancreas

Spleen

Testis

Thymus

Unspecified

Gastrointestinal Tract

Multiple Organs Nos

Abscess, Nos

Oligospermia

Postmortem Change

Cirrhosis, Portal

Lipoidosis

Hypoplasia, Hematopoietic

Hyperplasia, Interstitial Cell

Spermatogenic Arrest

Involution, Nos

Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_183

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

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**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver  
Lung  
Pituitary gland  
Thymus

Cortex Nos

Amyloidosis  
Nephropathy  
Necrosis, Focal  
Inflammation, Interstitial  
Cytoplasmic Vacuolization  
Involution, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_191

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Epididymis		Inflammation, Nos
Liver		Necrosis, Focal
Lung		Hyperplasia, Granulocytic
Prostate		Inflammation, Nos
Testis		Abscess, Nos
Unspecified	Multiple Organs Nos	Postmortem Change

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_192

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Medulla	Dilatation, Nos
Epididymis		Abscess, Nos
Heart	Myocardium Nos	Inflammation, Focal
Intestine Large	Large Intestine, Colon	Inflammation, Nos
	Colon	Intussusception
Kidney	Pelvis	Inflammation, Acute Suppurative
		Nephropathy
Liver	Bile Duct	Inflammation, Nos
Lung		Inflammation, Interstitial
Lymph node	Colo-Rectal Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
		Degeneration, Hyaline
Prostate		Inflammation, Acute Focal
Seminal vesicle		Inflammation, Acute Suppurative
Testis		Inflammation, Acute Focal
		Spermatogenic Arrest
Thymus		Involution, Nos
Urinary bladder		Inflammation, Acute Suppurative

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:42

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_193

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Epididymis

Heart

Kidney

Liver

Lung

Pancreas

Testis

Unspecified

Left Atrium Nos

Alveoli

Islets

Multiple Organs Nos

Aspermatogenesis

Thrombus, Organized

Nephropathy

Cirrhosis, Portal

Histiocytosis

Islet-Cell Adenoma

Spermatogenic Arrest

Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_201

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Spleen		Hyperplasia, Lymphoid
Thymus		Cyst, Multiple
		Involution, Nos

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_202

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization Hemorrhage
Epididymis		Aspermatogenesis
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive Necrosis, Focal
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Spleen		Hematopoiesis
Stomach		Acanthosis Hyperkeratosis
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_203

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

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**OBSERVATIONS**

Liver		Hematopoiesis
	Bile Duct	Inflammation, Nos
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Spleen		Hematopoiesis
Testis		Spermatogenic Arrest

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_211

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Epididymis

Aspermatogenesis

Intestine Small

Jejunum

Cast, Nos

Stomach

Cardiac Stomach

Regeneration, Incomplete

Testis

Hyperplasia, Papillary

Spermatogenic Arrest

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_212

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland Epididymis	Cortex Nos	Hyperplasia, Focal Aspermatogenesis Cast, Nos
Heart Kidney	Left Atrium Nos	Thrombus, Organized Adenocarcinoma, Nos Nephropathy
Liver	Portal Tract	Amyloidosis Cirrhosis, Portal Hyperplasia, Nos Hyperplasia, Lymphoid Spermatogenic Arrest Involution, Nos
Lymph node Spleen Testis Thymus		

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_213

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis
Blood vessel	Colic Artery	Thrombosis, Nos
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Colon	Intussusception
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_221

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland  
Epididymis

Medulla

Hyperplasia, Focal  
Aspermatogenesis  
Granuloma, Spermatic

Heart  
Lymph node  
Prostate  
Testis

Left Atrium Nos

Thrombus, Organized  
Hyperplasia, Nos  
Inflammation, Chronic  
Hyperplasia, Interstitial Cell  
Spermatogenic Arrest  
Involution, Nos

Thymus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_222

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Intestine Large	Large Intestine, Colon	Inflammation, Nos
Intestine Small	Ileum	Postmortem Change
Kidney		Nephropathy
Lung		Congestion, Nos
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Skin	Circumanal Gland	Inflammation, Chronic
Thymus		Involution, Nos
Thyroid		Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_223

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis Cortical Adenoma
Epididymis		Aspermatogenesis
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Lung	Alveoli	Congestion, Nos
Prostate		Inflammation, Chronic
Spleen		Hypoplasia, Lymphoid
Stomach	Fundus	Erosion
Testis		Hyperplasia, Interstitial Cell Spermatogenic Arrest
Thyroid		C-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_231

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland		Cortical Carcinoma
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Hepatic Lobule	Lipoidosis
Lung		Inflammation, Interstitial
Pancreas		Lipoidosis
Spleen	Capsule	Hyperplasia, Reticulum Cell
Thymus		Involution, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_232

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Intestine Small	Ileum	Inflammation, Nos
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Testis		Spermatogenic Arrest

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_251

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland		Pheochromocytoma
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cyst, Multiple
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas	Islets	Islet-Cell Adenoma
		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Thyroid	Follicle	Atrophy, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_253

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Gall bladder		Calculus, Unknown Gross Or Micro
Heart		Endocardiosis
Intestine Large	Gastrointestinal Tract	Inflammation, Suppurative
	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Periportal	Lymphocytic Inflammatory Infiltrate
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Prostate		Retention Of Content
Seminal vesicle		Retention Of Content
Thymus		Involution, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_261

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Heart	Mitral Valve Nos	Inflammation, Chronic
	Left Ventricle Nos	Thrombosis, Nos
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Bile Duct	Dilatation, Nos
	Bile Duct	Hyperplasia, Nos
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Pancreas		Dilatation, Ducts
		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_262

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Hemorrhage
	Medulla	Hyperplasia, Focal
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Large Intestine, Colon	Inflammation, Acute Diffuse
	Rectum	Inflammation, Nos
Intestine Small	Ileum	Inflammation, Proliferative
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Skin		Acariasis
		Inflammation, Chronic
Unspecified	Multiple Organs Nos	Amyloidosis

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_263

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Kidney		Nephropathy
Liver		Abscess, Nos
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Postmortem Change

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:42

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_271

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Gall bladder		Inflammation, Chronic
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Cecum, Colon	Inflammation, Chronic Focal
	Anus Nos	Persistent Cloaca
Kidney	Glomerulus	Amyloidosis
		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cyst, Nos
Lung	Alveoli	Histiocytosis
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis
Seminal vesicle		Inflammation, Chronic Focal
Skin		Inflammation, Chronic
Thymus		Involution, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_272

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal Pheochromocytoma
Epididymis		Aspermatogenesis
Kidney		Nephropathy
Liver		Cyst, Multiple
Lung		Hyperplasia, Adenomatous
Lymph node		Hyperplasia, Nos
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis
Testis		Spermatogenic Arrest
Urinary bladder		Hyperplasia, Papillary Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_281

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Epididymis		Granuloma, Spermatic
Intestine Large	Colon	Inflammation, Acute
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Postmortem Change

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_282

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Intestine Large  
Kidney

Intestinal Tract

Postmortem Change  
Nephropathy  
Nephrosis, Hydro  
Lymphocytic Inflammatory Infiltrate  
Hyperplasia, Epithelial

Liver  
Urinary bladder

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_283

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Bone marrow		Congestion, Nos
Intestine Large	Gastrointestinal Tract	Inflammation, Acute Suppurative
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Nos
	Periportal	Lymphocytic Inflammatory Infiltrate
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Prostate		Retention Of Content
Seminal vesicle		Retention Of Content
Spleen		Hyperplasia, Lymphoid
		Hypoplasia, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_291

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Kidney		Nephropathy
Lung	Alveoli	Histiocytosis
Pancreas		Lipoidosis
Thymus		Involution, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:42

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_292

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Epididymis

Heart

Kidney

Myocardium Nos

Glomerulus

Cortical Adenoma

Aspermatogenesis

Necrosis, Focal

Amyloidosis

Nephropathy

Cytoplasmic Vacuolization

Inflammation, Chronic

Spermatogenic Arrest

Involution, Nos

Hyperplasia, Nos

Hyperplasia, Papillary

Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_293

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Bone marrow		Aplasia, Hematopoietic
Epididymis		Aspermatogenesis
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Portal Tract	Amyloidosis
		Cirrhosis, Portal
Pancreas		Lipoidosis
Testis		Spermatogenic Arrest
Thyroid		C-Cell Adenoma
		Cyst, Colloid
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_301

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis  
Intestine Large  
Kidney  
Prostate  
Testis

Gastrointestinal Tract

Unspecified  
Urinary bladder

Multiple Organs Nos

Aspermatogenesis  
Postmortem Change  
Nephropathy  
Inflammation, Chronic  
Hyperplasia, Interstitial Cell  
Spermatogenic Arrest  
Amyloidosis  
Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_302

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Intestine Large

Cecum, Colon  
Large Intestine, Colon

Congestion, Nos  
Hemorrhage

Lung

Congestion, Nos  
Hemorrhage

Lymph node  
Unspecified

Mesenteric Lymph Node

Hyperplasia, Lymphoid  
Granuloma, Foreign Body

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_303

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis Cortical Adenoma
Epididymis	Cortex Nos	Hyperplasia, Focal Aspermatogenesis Cast, Nos
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver	Pelvis Centrilobular	Nephrosis, Hydro Congestion, Passive Necrosis, Focal
Lung	Alveoli Alveoli	Histiocytosis Hyperplasia, Adenomatous
Prostate		Inflammation, Acute Suppurative
Seminal vesicle		Inflammation, Suppurative
Testis		Spermatogenic Arrest

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:42

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_311

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis
	Cortex Nos	Hyperplasia, Focal
Epididymis		Cast, Nos
Gall bladder		Edema, Nos
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cyst, Multiple
Lung	Alveoli	Histiocytosis
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis
Spleen		Hematopoiesis
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Spermatogenic Arrest
Thymus		Involution, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:42

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_312

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cytoplasmic Vacuolization
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Lymph node	Cervical Lymph Node Nos	Congestion, Nos
		Hyperplasia, Nos
	Mesenteric Lymph Node	Inflammation, Acute
Pituitary gland		Cytoplasmic Vacuolization
Stomach	Fundus	Erosion
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis
Urinary bladder		Hyperplasia, Papillary
		Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_313

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland

Medulla  
Cortex Nos

Cortical Adenoma  
Hyperplasia, Focal  
Necrosis, Focal  
Aspermatogenesis  
Dilatation, Nos  
Nephropathy  
Cyst, Multiple  
Degeneration, Hydropic  
Histiocytosis  
Islet-Cell Adenoma  
Hyperplasia, Papillary

Epididymis

Heart

Kidney

Liver

Lung

Pancreas

Urinary bladder

Hepatic Lobule  
Alveoli  
Islets

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_321

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
Heart	Myocardium Nos	Fibrosis, Focal
Kidney	Glomerulus	Amyloidosis
		Nephropathy
Liver	Centrilobular	Congestion, Passive
	Hepatic Lobule	Necrosis, Focal
Lung		Inflammation, Interstitial
Pancreas	Islets	Islet-Cell Adenoma
		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_322

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland  
Bone marrow  
Intestine Large  
  
Kidney  
Liver  
Lung  
Lymph node  
Pancreas  
Prostate  
Seminal vesicle  
Spleen  
Unspecified

Gastrointestinal Tract  
Gastrointestinal Tract  
  
  
  
  
  
  
  
  
  
Multiple Organs Nos

Angiectasis  
Congestion, Nos  
Inflammation, Suppurative  
Postmortem Change  
Nephropathy  
Inflammation, Acute Pustular  
Inflammation, Interstitial  
Hyperplasia, Nos  
Lipoidosis  
Retention Of Content  
Retention Of Content  
Hypoplasia, Nos  
Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_323

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

---

**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Acute Focal
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cyst, Nos
		Necrosis, Focal
Pancreas		Lipoidosis

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:42

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_331

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Abscess, Nos
		Inflammation, Acute Suppurative
Intestine Small	Ileum	Inflammation, Acute Suppurative
	Ileum	Postmortem Change
	Intestinal Villus, Ileum	Regeneration, Incomplete
Kidney		Nephropathy
Liver		Inflammation, Acute/Chronic
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Prostate		Inflammation, Acute Suppurative
Seminal vesicle		Inflammation, Acute Suppurative
Spleen		Hypoplasia, Nos
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis
Urinary bladder		Inflammation, Acute/Chronic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:42

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_332

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Amyloidosis

Cortex Nos

Hyperplasia, Focal

Intestine Small

Jejunum

Adenocarcinoma, Nos

Kidney

Nephropathy

Liver

Adenocarcinoma, Nos, Metastatic

Bile Duct

Inflammation, Nos

Lymph node

Mediastinal Lymph Node

Adenocarcinoma, Nos, Metastatic

Pancreatic Lymph Node

Adenocarcinoma, Nos, Metastatic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_333

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Intestine Large  
Lung  
Lymph node  
Skin  
Thyroid

Gastrointestinal Tract  
Alveoli  
  
Follicle

Postmortem Change  
Congestion, Nos  
Hyperplasia, Nos  
Inflammation, Acute  
Atrophy, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_342

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Lung  
Unspecified

Multiple Organs Nos

Congestion, Nos  
Postmortem Change

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_343

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

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**OBSERVATIONS**

Heart	Atrium	Thrombus, Mural
Kidney		Nephropathy
Liver		Cirrhosis, Portal
		Cloudy Swelling
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_351

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Amyloidosis
Bone marrow		Congestion, Nos
		Hypoplasia, Nos
Gall bladder		Calculus, Unknown Gross Or Micro
Intestine Large	Intestinal Tract	Inflammation, Acute Suppurative
	Gastrointestinal Tract	Postmortem Change
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid
Kidney		Infarct, Healed
		Nephropathy
Lung		Congestion, Nos
Lymph node		Hyperplasia, Nos
Thyroid		Hyperplasia, Follicular Cell

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_352

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Bone marrow  
Epididymis  
Intestine Large  
  
Intestine Small  
Kidney  
Lung  
Lymph node  
Prostate  
Seminal vesicle  
Testis

Gastrointestinal Tract  
Intestinal Tract  
Intestinal Villus, Ileum

Congestion, Nos  
Aspermatogenesis  
Inflammation, Suppurative  
Postmortem Change  
Regeneration, Incomplete  
Nephropathy  
Inflammation, Acute Diffuse  
Hyperplasia, Nos  
Retention Of Content  
Retention Of Content  
Spermatogenic Arrest

PRIMARY CAUSE OF DEATH

-

Experiment Number: C61234B

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Hamsters/Syrian Golden

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 13:38:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_353

TRT#: 1  
DOSE: 0

SEX: Male  
DISP: Natural Death

DAY ON TEST:  
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Brachioceph. Artery	Embolism, Nos
Epididymis		Aspermatogenesis
Gall bladder		Calculus, Unknown Gross Or Micro
		Edema, Nos
Intestine Large	Cecum, Colon	Inflammation, Chronic Focal
	Intestinal Tract	Postmortem Change
Kidney	Pelvis	Calculus, Unknown Gross Or Micro
		Nephropathy
	Pelvis	Nephrosis, Hydro
Lung		Atelectasis
Pituitary gland		Cytoplasmic Vacuolization
		Degeneration, Hyaline
Prostate		Inflammation, Acute Suppurative
Seminal vesicle		Inflammation, Acute
Spleen	Red Pulp	Hyperplasia, Nos
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Thymus		Involution, Nos
Thyroid	Follicle	Atrophy, Nos
Unspecified		Abscess, Nos
	Multiple Organs Nos	Amyloidosis
Urinary bladder		Hyperplasia, Papillary

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_361

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Blood vessel	Abdominal Aorta	Atherosclerosis
	Brachioceph. Artery	Atherosclerosis
	Coronary Artery Nos	Atherosclerosis
Epididymis		Aspermatogenesis
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
		Degeneration, Hyaline
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Thymus		Involution, Nos

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_362

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Intestine Large  
Intestine Small  
Lymph node

Intestinal Tract  
Jejunum  
Mesenteric Lymph Node

Inflammation, Acute  
Postmortem Change  
Hyperplasia, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_363

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Intestine Large

Intestinal Tract

Inflammation, Nos

Lung

Intestinal Tract

Postmortem Change

Congestion, Nos

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_371

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Ganglioneuroma
Epididymis		Aspermatogenesis
Intestine Large	Colon	Intussusception
	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
	Pelvis	Nephrosis, Hydro
Pituitary gland		Cytoplasmic Vacuolization
Skin	Circumanal Gland	Inflammation, Acute
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis
Urinary bladder		Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_372

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Heart	Left Atrium Nos
Intestine Large	Intestinal Tract
Kidney	
Liver	
Lung	Alveoli
Pancreas	
Thymus	
Unspecified	Multiple Organs Nos

Thrombosis, Nos  
Postmortem Change  
Nephropathy  
Cirrhosis, Portal  
Congestion, Nos  
Lipoidosis  
Involution, Nos  
Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_373

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Intestine Large	Gastrointestinal Tract	Postmortem Change
Liver	Centrilobular	Congestion, Passive
	Bile Duct	Cytoplasmic Vacuolization
		Dilatation, Nos
Lung	Alveoli	Necrosis, Focal
Stomach	Cardiac Stomach	Histiocytosis
	Cardiac Stomach	Acanthosis
Testis		Hyperkeratosis
Thyroid	Follicle	Spermatogenic Arrest
		Atrophy, Focal

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_381

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Adrenal gland  
Kidney  
Lung  
Pancreas

Cortex Nos

Hyperplasia, Focal  
Nephropathy  
Inflammation, Interstitial  
Lipoidosis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_382

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Bone marrow  
Intestine Large  
  
Kidney  
Lung  
Lymph node  
Pancreas  
Prostate  
Seminal vesicle  
Thymus

Gastrointestinal Tract  
Gastrointestinal Tract

Congestion, Nos  
Inflammation, Suppurative  
Postmortem Change  
Infarct, Nos  
Inflammation, Interstitial  
Hyperplasia, Nos  
Lipoidosis  
Retention Of Content  
Retention Of Content  
Involution, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:42

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_383

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Congestion, Nos
Bone marrow		Congestion, Nos
Intestine Small	Ileum	Inflammation, Acute Diffuse
Kidney		Nephropathy
Lung		Inflammation, Interstitial
Prostate		Retention Of Content
Seminal vesicle		Retention Of Content
Skin		Scar
		Verruca
Spleen		Hypoplasia, Nos
Testis		Spermatogenic Arrest

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:42

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_391

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Epididymis	
Intestine Large	Intestinal Tract
Kidney	
Liver	
Lymph node	Mesenteric Lymph Node
Spleen	
Testis	
Thymus	
Unspecified	Multiple Organs Nos

Abscess, Nos
Postmortem Change
Nephropathy
Cirrhosis, Portal
Hyperplasia, Nos
Hyperplasia, Nos
Spermatogenic Arrest
Involution, Nos
Amyloidosis

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_392

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Kidney		Nephropathy
Liver		Cirrhosis, Portal
		Necrosis, Focal
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Prostate		Retention Of Content
Seminal vesicle		Retention Of Content
Stomach		Hyperkeratosis
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_393

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis

Intestine Large

Kidney

Liver

Lung

Salivary gland

Testis

Thymus

Unspecified

Gastrointestinal Tract

Multiple Organs Nos

Abscess, Nos

Aspermatogenesis

Postmortem Change

Nephropathy

Cirrhosis, Portal

Inflammation, Interstitial

Inflammation, Acute Suppurative

Hyperplasia, Interstitial Cell

Spermatogenic Arrest

Involution, Nos

Amyloidosis

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_401

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Blood vessel	Aorta Nos	Arteriosclerosis, Nos
Epididymis		Aspermatogenesis
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Bile Duct	Dilatation, Nos
Pituitary gland		Cytoplasmic Vacuolization
Prostate		Hyperplasia, Epithelial
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_402

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Gall bladder		Edema, Nos
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney	Glomerulus	Amyloidosis
Liver	Centrilobular	Congestion, Passive
Lung		Inflammation, Interstitial
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Thyroid	Follicle	Atrophy, Nos

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_403

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

---

**OBSERVATIONS**

Brain	Inflammation, Nos
Epididymis	Granuloma, Spermatic
Kidney	Nephropathy
Stomach	Inflammation, Nos
	Ulcer, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:42  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_411

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

---

**OBSERVATIONS**

Heart  
Kidney  
Liver

Centrilobular

Dilatation, Nos  
Nephropathy  
Congestion, Passive  
Necrosis, Focal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_413

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Heart	Mitral Valve Nos	Inflammation, Proliferative
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
		Inflammation, Acute Suppurative
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Spleen		Hypoplasia, Nos
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_421

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Heart  
Intestine Large  
Kidney

Left Atrium Nos  
Cecum, Colon  
Glomerulus

Liver  
Lung  
Lymph node  
Pancreas  
Pituitary gland  
Seminal vesicle  
Thymus

Alveoli  
Mesenteric Lymph Node

Hemorrhage  
Thrombus, Organized  
Inflammation, Acute Focal  
Amyloidosis  
Nephropathy  
Necrosis, Focal  
Histiocytosis  
Hyperplasia, Nos  
Lipoidosis  
Cytoplasmic Vacuolization  
Inflammation, Suppurative  
Involution, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_422

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lung		Inflammation, Interstitial
Prostate		Hyperplasia, Epithelial
Skin		Inflammation, Chronic Focal
Spleen		Hyperplasia, Nos
Stomach	Fundus	Erosion
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_423

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Intestine Large

Intestinal Tract  
Gastrointestinal Tract

Inflammation, Acute Suppurative  
Postmortem Change

Lung

Congestion, Nos

Lymph node

Hyperplasia, Nos

Prostate

Retention Of Content

Seminal vesicle

Retention Of Content

Spleen

Red Pulp

Hypoplasia, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_431

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Bone marrow  
Heart  
Intestine Large

Myocardium Nos  
Large Intestine, Colon  
Rectum  
Intestinal Tract

Kidney  
Lung  
Pancreas  
Thymus  
Thyroid

Metamorphosis, Fatty  
Mineralization  
Inflammation, Nos  
Inflammation, Proliferative  
Postmortem Change  
Nephropathy  
Inflammation, Interstitial  
Lipoidosis  
Involution, Nos  
Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_432

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Dilatation, Nos
Epididymis		Aspermatogenesis
Intestine Large	Gastrointestinal Tract	Inflammation, Acute Suppurative
	Gastrointestinal Tract	Postmortem Change
Kidney	Glomerulus	Amyloidosis
		Nephropathy
	Pelvis	Nephrosis, Hydro
Lung		Inflammation, Interstitial
Lymph node	Colo-Rectal Lymph Node	Hyperplasia, Nos
Parathyroid gland		Hyperplasia, Nos
Prostate		Retention Of Content
Seminal vesicle		Retention Of Content
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Urinary bladder		Inflammation, Chronic
	Mucosa	Mineralization

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_433

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis	Oligospermia
Kidney	Nephropathy
Lung	Inflammation, Interstitial
Lymph node	Hyperplasia, Nos
Pituitary gland	Cytoplasmic Vacuolization
Skin	Inflammation, Acute Focal
Spleen	Hypoplasia, Lymphoid
Testis	Spermatogenic Arrest
Thymus	Involution, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_441

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Pheochromocytoma
Lung	Alveoli	Congestion, Nos
Pituitary gland		Cytoplasmic Vacuolization
		Hyperplasia, Nos
Seminal vesicle		Inflammation, Chronic Focal
Skin		Inflammation, Chronic
Thyroid	Follicle	Atrophy, Nos
Unspecified	Multiple Organs Nos	Lymphoma, Histiocytic-Malignant Type

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_442

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis

Oligospermia

Spermatocele

Heart

Myocardium Nos

Metaplasia, Osseous

Intestine Large

Intestinal Tract

Postmortem Change

Kidney

Nephropathy

Liver

Centrilobular

Congestion, Passive

Lung

Alveoli

Histiocytosis

Lymph node

Cervical Lymph Node Nos

Hyperplasia, Nos

Pancreas

Lipoidosis

Thymus

Involution, Nos

Unspecified

Multiple Organs Nos

Amyloidosis

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_443

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Intestine Large  
Kidney  
Liver  
Lung  
Unspecified

Gastrointestinal Tract  
Hepatic Lobule  
Multiple Organs Nos

Postmortem Change  
Nephropathy  
Abscess, Nos  
Postmortem Change  
Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_451

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Blood vessel	Aorta Nos	Arteriosclerosis, Nos
Epididymis		Aspermatogenesis
Heart	Mitral Valve Nos	Inflammation, Proliferative
Kidney		Nephropathy
Testis		Spermatogenic Arrest
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis
	Multiple Organs Nos	Postmortem Change

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_452

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Bone marrow		Aplasia, Hematopoietic
Intestine Small	Ileum	Postmortem Change
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Pituitary gland		Cytoplasmic Vacuolization
Spleen		Amyloidosis
	Red Pulp	Hyperplasia, Lymphoid
Stomach	Cardiac Stomach	Hypoplasia, Nos
	Cardiac Stomach	Acanthosis
Thymus		Hyperkeratosis
		Involution, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_453

**TRT#:** 1  
**DOSE:** 0

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis Spermatocoele
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Spleen		Hypoplasia, Lymphoid
Stomach	Cardiac Stomach	Hyperkeratosis
Testis		Spermatogenic Arrest
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis
Urinary bladder		Hyperplasia, Papillary

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_011

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Spermatocele
Heart	Myocardium Nos	Inflammation, Chronic
Intestine Large	Cecum, Colon	Hyperplasia, Epithelial
	Cecum, Colon	Inflammation, Chronic
	Cecum, Colon	Nematodiasis
Kidney	Tubule	Calcification, Focal
Liver		Angiectasis
		Inflammation, Chronic
Skin		Acariasis
		Hyperkeratosis
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Postmortem Change

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_012

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Dilatation, Nos Hemorrhage
Bone marrow		Aplasia, Hematopoietic
Kidney	Glomerulus	Amyloidosis Nephropathy
Liver	Centrilobular	Congestion, Passive Cytoplasmic Vacuolization Necrosis, Focal
Lung	Alveoli	Histiocytosis
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland		Cytoplasmic Vacuolization Degeneration, Hyaline
Prostate		Inflammation, Acute Suppurative
Salivary gland		Abscess, Nos
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Atrophy, Focal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_013

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis  
Intestine Large  
Kidney  
Pituitary gland

Intestinal Tract

Prostate

Testis  
Unspecified

Multiple Organs Nos

Oligospermia  
Postmortem Change  
Nephropathy  
Cytoplasmic Vacuolization  
Degeneration, Hyaline  
Hyperplasia, Epithelial  
Inflammation, Acute  
Spermatogenic Arrest  
Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_021

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
		Granuloma, Spermatic
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Large Intestine, Colon	Abscess, Nos
	Colon	Hyperplasia, Epithelial
	Large Intestine, Colon	Inflammation, Chronic
Kidney		Nephropathy
Liver		Cirrhosis, Portal
	Centrilobular	Congestion, Passive
		Cyst, Multiple
		Cytoplasmic Vacuolization
		Necrosis, Focal
Lung		Pneumonia, Interstitial Chronic
Pituitary gland		Cytoplasmic Vacuolization
Skin	Circumanal Gland	Inflammation, Chronic
Spleen		Hypoplasia, Lymphoid
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_022

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis
Bone marrow		Aplasia, Hematopoietic
Kidney		Nephropathy
Thymus		Involution, Nos
Thyroid	Follicle	Atrophy, Nos
Unspecified	Multiple Organs Nos	Postmortem Change

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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<b>ANIMAL ID:</b> 2_023	<b>TRT#:</b> 2 <b>DOSE:</b> 10000 PPM	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> <b>HISTO:</b>
<hr/> <b>OBSERVATIONS</b>			
Intestine Large	Colon	Inflammation, Acute	
	Cecum, Colon	Inflammation, Acute Diffuse	
	Intestinal Tract	Postmortem Change	
Intestine Small	Ileum	Inflammation, Acute	
Kidney		Nephropathy	
Lung	Alveoli	Histiocytosis	
Lymph node		Hyperplasia, Nos	
Pancreas		Lipoidosis	
Pituitary gland		Cytoplasmic Vacuolization	
Thymus		Involution, Nos	
Unspecified	Multiple Organs Nos	Amyloidosis	
<hr/> <b>PRIMARY CAUSE OF DEATH</b>			
-			

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_032

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Amyloidosis

Heart

Cortex Nos

Hyperplasia, Nos

Intestine Small

Left Atrium Nos

Thrombus, Organized

Kidney

Ileum

Postmortem Change

Liver

Centrilobular

Nephropathy

Lung

Alveoli

Congestion, Passive

Lymph node

Cervical Lymph Node Nos

Histiocytosis

Pancreas

Hyperplasia, Nos

Thymus

Lipoidosis

Involution, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_033

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Intestine Large

Gastrointestinal Tract  
Gastrointestinal Tract

Inflammation, Nos  
Postmortem Change  
Congestion, Nos  
Inflammation, Interstitial

Kidney

Lung

Lymph node

Pancreas

Prostate

Seminal vesicle

Spleen

Hyperplasia, Nos  
Lipoidosis  
Retention Of Content  
Retention Of Content  
Amyloidosis  
Congestion, Nos  
Hyperplasia, Nos  
Involution, Nos

Red Pulp

Thymus

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_041

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Intestine Large  
Thyroid

Large Intestine, Colon  
Follicle

Inflammation, Acute Hemorrhagic  
Atrophy, Diffuse

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_042

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland  
Heart  
Intestine Small  
Liver

Cortex Nos  
Left Atrium Nos  
Ileum  
Centrilobular

Cyst, Nos  
Thrombus, Organized  
Inflammation, Acute  
Congestion, Passive  
Necrosis, Focal  
Edema, Nos  
Hematopoiesis

Lung  
Spleen

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_043

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Intestine Large  
Lymph node  
Thyroid

Gastrointestinal Tract  
Mesenteric Lymph Node  
Follicle

Postmortem Change  
Hyperplasia, Nos  
Atrophy, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_051

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
	Cortex Nos	Hyperplasia, Focal
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Intestinal Tract	Inflammation, Chronic
Intestine Small	Ileum	Regeneration, Incomplete
Kidney	Glomerulus	Amyloidosis
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Spleen		Hematopoiesis
Thymus		Involution, Nos

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_052

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Blood vessel	Abdominal Aorta	Atherosclerosis
	Abdominal Aorta	Mineralization
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Pancreas		Lipoidosis
Skin	Circumanal Gland	Inflammation, Chronic
Thyroid	Follicle	Atrophy, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_053

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Heart	Mitral Valve Nos	Inflammation, Chronic
	Left Ventricle Nos	Thrombosis, Nos
Kidney		Nephropathy
Liver		Cirrhosis, Portal
	Bile Duct	Dilatation, Nos
Lung		Inflammation, Interstitial
Pituitary gland		Cytoplasmic Vacuolization
		Degeneration, Hyaline
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Thymus		Involution, Nos
Thyroid		Cyst, Colloid
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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<b>ANIMAL ID:</b> 2_061	<b>TRT#:</b> 2 <b>DOSE:</b> 10000 PPM	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> <b>HISTO:</b>
<hr/> <b>OBSERVATIONS</b>			
Heart	Mitral Valve Nos Left Ventricle Nos	Inflammation, Chronic Thrombosis, Nos	
Intestine Large	Large Intestine, Colon Large Intestine, Colon Gastrointestinal Tract	Abscess, Nos Granuloma, Nos Postmortem Change	
Kidney		Nephropathy	
Liver		Cirrhosis, Portal	
Lung		Inflammation, Interstitial	
Pancreas		Postmortem Change	
Spleen		Hematopoiesis	
Thymus		Involution, Nos	
Unspecified	Multiple Organs Nos	Amyloidosis	
<hr/> <b>PRIMARY CAUSE OF DEATH</b> -			

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_063

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Intestinal Tract	Inflammation, Chronic
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung		Pneumonia, Interstitial Chronic
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Unspecified	Multiple Organs Nos	Amyloidosis

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_071

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Bone marrow		Congestion, Nos
Intestine Large	Intestinal Tract	Inflammation, Acute Diffuse
Intestine Small	Ileum, Ileum	Congestion, Nos
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Prostate		Retention Of Content
Seminal vesicle		Retention Of Content
Spleen	Red Pulp	Hematopoiesis
		Hypoplasia, Nos
Urethra	Bulbourethral Gland	Retention Of Content

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_072

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Intestine Large  
Kidney

Intestinal Tract  
Glomerulus

Postmortem Change  
Amyloidosis  
Nephropathy  
Involution, Nos

Thymus

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_073

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
	Cortex Nos	Hyperplasia, Focal
Kidney	Glomerulus	Amyloidosis
		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cytoplasmic Vacuolization
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Pancreas		Lipoidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_081

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung	Alveoli	Inflammation, Acute Focal
Salivary gland		Abscess, Nos
Testis		Spermatogenic Arrest

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_082

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
Lung	Alveoli	Histiocytosis
Pancreas		Lipoidosis
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_083

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
Kidney	Glomerulus	Amyloidosis
		Nephropathy
Pancreas		Lipoidosis
Pituitary gland		Degeneration, Hyaline
Skin		Inflammation, Chronic
Stomach	Cardiac Stomach	Acanthosis
	Fundus	Erosion
	Cardiac Stomach	Hyperkeratosis
Thymus		Involution, Nos

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_091

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Spleen		Hematopoiesis
		Hyperplasia, Reticulum Cell
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Mineralization
		Spermatogenic Arrest
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_092

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Epididymis

Heart  
Intestine Large  
Kidney  
Liver

Lung  
Spleen  
Testis

Thyroid

Left Atrium Nos  
Gastrointestinal Tract

Centrilobular

Alveoli

Cortical Adenoma  
Aspermatogenesis  
Spermatocele  
Thrombus, Organized  
Postmortem Change  
Nephropathy  
Congestion, Passive  
Necrosis, Focal  
Histiocytosis  
Hematopoiesis  
Hyperplasia, Interstitial Cell  
Spermatogenic Arrest  
Cyst, Colloid

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_093

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Unspecified

Multiple Organs Nos  
Multiple Organs Nos

Lymphoma, Lymphocytic-Malignant Type  
Postmortem Change

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_101

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Epididymis		Aspermatogenesis
		Hyperplasia, Nos
Intestine Large	Intestinal Tract	Inflammation, Acute Suppurative
Intestine Small	Jejunum	Necrosis, Hemorrhagic
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Nos
Lung		Congestion, Nos
		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Prostate		Retention Of Content
Seminal vesicle		Retention Of Content
Spleen		Congestion, Nos
	Red Pulp	Hypoplasia, Nos
Stomach	Muscularis	Hyperplasia, Lymphoid
Testis		Inflammation, Acute Focal
		Spermatogenic Arrest

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_102

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Intestinal Tract	Inflammation, Focal
	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
	Centrilobular	Hepatocytomegaly
	Kupffer Cell	Pigmentation, Nos
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Spleen	Red Pulp	Hypoplasia, Nos
Thymus		Involution, Nos
Thyroid	Follicle	Atrophy, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_103

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Intestine Large

Gastrointestinal Tract

Inflammation, Acute Suppurative

Gastrointestinal Tract

Postmortem Change

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Nos

Inflammation, Acute Suppurative

Lung

Inflammation, Interstitial

Lymph node

Hyperplasia, Nos

Pancreas

Lipoidosis

Prostate

Retention Of Content

Seminal vesicle

Retention Of Content

Skin

Scar

Spleen

Hyperplasia, Nos

Stomach

Mucosa

Atrophy, Nos

Testis

Hyperplasia, Interstitial Cell

Spermatogenic Arrest

Unspecified

Multiple Organs Nos

Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_111

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Intestinal Tract	Inflammation, Acute
Kidney	Glomerulus	Amyloidosis
		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Spleen		Hematopoiesis
		Hyperplasia, Reticulum Cell
Unspecified	Multiple Organs Nos	Postmortem Change

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_112

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
Epididymis		Cast, Nos
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Anus Nos	Hyperplasia, Epithelial
Kidney		Nephropathy
Liver		Cyst, Multiple
Lung	Alveoli	Congestion, Nos
	Alveoli	Histiocytosis
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Skin		Acariasis
		Inflammation, Chronic
Spleen		Hypoplasia, Nos
Testis		Spermatogenic Arrest
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis
Urinary bladder		Hyperplasia, Papillary

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_113

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis Cortical Adenoma
Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Small	Ileum	Inflammation, Chronic
Liver	Bile Duct	Inflammation, Diffuse
Lung	Alveoli	Histiocytosis
Lymph node	Cervical Lymph Node Nos	Carcinoma, Nos
Pancreas	Islets	Islet-Cell Adenoma
Prostate		Inflammation, Chronic
Testis		Hyperplasia, Interstitial Cell Spermatogenic Arrest
Thyroid	Follicle	Atrophy, Nos Cyst, Colloid
Unspecified	Multiple Organs Nos	Carcinoma, Nos, Metastatic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_121

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Thrombosis, Nos
Kidney		Nephropathy
Liver		Cirrhosis, Portal
	Centrilobular	Congestion, Passive
Lung	Alveoli	Histiocytosis
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Prostate		Hyperplasia, Epithelial
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_122

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Zona Glomerulosa	Metaplasia, Nos
Epididymis		Aspermatogenesis
		Cast, Nos
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_123

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos
Intestine Large	Gastrointestinal Tract
Kidney	
Lung	Alveoli
Lymph node	Cervical Lymph Node Nos
Pancreas	
Spleen	
Thymus	
Unspecified	Multiple Organs Nos

Metaplasia, Osseous  
Postmortem Change  
Nephropathy  
Histiocytosis  
Hyperplasia, Nos  
Lipoidosis  
Hypoplasia, Nos  
Involution, Nos  
Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_131

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Pheochromocytoma, Malignant
Epididymis		Aspermatogenesis
Heart	Mitral Valve Nos	Inflammation, Proliferative
	Mitral Valve Nos	Thrombosis, Nos
	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lung		Inflammation, Interstitial
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Diffuse
		Lipoidosis
Prostate		Hyperplasia, Epithelial
Skin		Inflammation, Chronic
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Spermatogenic Arrest
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_132

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lung		Inflammation, Interstitial
Prostate		Inflammation, Chronic
Spleen		Hypoplasia, Nos
Unspecified	Multiple Organs Nos	Amyloidosis
	Multiple Organs Nos	Postmortem Change

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_133

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Blood vessel	Abdominal Aorta	Thrombosis, Nos
Intestine Large	Colon	Inflammation, Chronic Focal
	Cecum, Colon	Necrosis, Nos
	Colon	Ulcer, Nos
Intestine Small	Ileum	Congestion, Nos
Lymph node	Mesenteric Lymph Node	Congestion, Nos
Skin	Circumanal Gland	Inflammation, Chronic
Unspecified	Multiple Organs Nos	Amyloidosis
	Multiple Organs Nos	Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_141

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Lung

Prostate

Seminal vesicle

Spleen

Testis

Left Atrium Nos

Glomerulus

Bile Duct

Cortical Adenoma

Thrombus, Organized

Amyloidosis

Nephropathy

Cyst, Multiple

Inflammation, Focal

Inflammation, Interstitial

Inflammation, Chronic

Inflammation, Chronic

Hyperplasia, Lymphoid

Hyperplasia, Interstitial Cell

Spermatogenic Arrest

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_142

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Pituitary gland  
Testis  
Thyroid  
Unspecified

Multiple Organs Nos

Cytoplasmic Vacuolization  
Spermatogenic Arrest  
Cyst, Colloid  
Lymphoma, Histiocytic-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_143

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Epididymis

Intestine Large

Intestine Small

Kidney

Spleen

Thyroid

Unspecified

Gastrointestinal Tract

Ileum

Follicle

Multiple Organs Nos

Spermatocele

Postmortem Change

Inflammation, Acute

Nephropathy

Hypoplasia, Nos

Atrophy, Nos

Amyloidosis

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_151

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Amyloidosis
		Cortical Carcinoma
Epididymis		Oligospermia
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cyst, Nos
	Bile Duct	Dilatation, Nos
	Bile Duct	Inflammation, Nos
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pituitary gland		Cytoplasmic Vacuolization
Prostate		Inflammation, Acute Suppurative
Seminal vesicle		Inflammation, Acute Suppurative
Spleen	Red Pulp	Hyperplasia, Nos
Testis		Spermatogenic Arrest
Thymus		Involution, Nos
Thyroid	Follicle	Atrophy, Nos
Urinary bladder		Hyperplasia, Papillary

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_152

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Heart  
Intestine Large  
Liver

Left Atrium Nos  
Gastrointestinal Tract  
Centrilobular

Thrombosis, Nos  
Postmortem Change  
Congestion, Nos  
Necrosis, Focal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_153

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Bone marrow  
Intestine Large  
Kidney  
Lung  
Lymph node

Gastrointestinal Tract

Congestion, Nos  
Inflammation, Nos  
Nephropathy  
Inflammation, Interstitial  
Hyperplasia, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_161

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Amyloidosis

Heart

Cortex Nos

Hyperplasia, Nos

Intestine Small

Left Atrium Nos

Thrombus, Organized

Kidney

Ileum

Inflammation, Acute

Liver

Centrilobular

Nephropathy

Lung

Alveoli

Congestion, Passive

Lymph node

Histiocytosis

Pancreas

Hyperplasia, Nos

Spleen

Lipoidosis

Thymus

Hemorrhage

Involution, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_162

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Epididymis

Heart

Lung

Lymph node

Pancreas

Spleen

Stomach

Thymus

Left Atrium Nos

Alveoli

Cardiac Stomach

Cardiac Stomach

Cardiac Stomach

Hyperplasia, Focal

Cast, Nos

Thrombus, Organized

Histiocytosis

Hyperplasia, Nos

Lipoidosis

Hematopoiesis

Acanthosis

Hyperkeratosis

Papillary Adenoma

Involution, Nos

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_163

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Amyloidosis
	Cortex Nos	Hyperplasia, Nos
Heart	Atrium	Thrombus, Mural
Intestine Large	Intestinal Tract	Postmortem Change
Kidney	Tubule	Mineralization
Liver	Centrilobular	Congestion, Nos
	Centrilobular	Necrosis, Nos
Lymph node	Mandibular Lymph Node	Inflammation, Chronic
	Mesenteric Lymph Node	Inflammation, Nos
Testis		Spermatogenic Arrest
Thyroid		Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_171

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Brain		Cytoplasmic Vacuolization
Gall bladder		Edema, Nos
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Skin		Acariasis
		Inflammation, Chronic
Spleen		Hypoplasia, Lymphoid
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_172

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Medulla	Cyst, Nos
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Lymph node	Cervical Lymph Node Nos	Congestion, Nos
Pancreas		Lipoidosis
Seminal vesicle		Inflammation, Chronic
		Mineralization
Skin		Acariasis
		Inflammation, Chronic
Spleen		Hematopoiesis
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_173

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Intestine Large  
Liver

Gastrointestinal Tract  
Centrilobular

Postmortem Change  
Congestion, Passive  
Necrosis, Focal

Lymph node  
Pituitary gland

Cervical Lymph Node Nos

Hyperplasia, Nos  
Cytoplasmic Vacuolization  
Degeneration, Hyaline

Thymus  
Thyroid

Follicle

Involution, Nos  
Atrophy, Diffuse

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_181

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Mineralization
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung		Inflammation, Interstitial
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_182

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Mineralization
Intestine Small	Ileum	Inflammation, Acute
Kidney		Nephropathy
Prostate		Inflammation, Chronic
Salivary gland		Inflammation, Focal
Spleen		Cyst, Hemorrhagic
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_183

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Intestine Large	Colon	Intussusception
	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Prostate		Retention Of Content
Spleen		Hypoplasia, Nos
Testis		Spermatogenic Arrest
Thyroid	Follicle	Atrophy, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_191

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Abscess, Nos
		Aspermatogenesis
Kidney		Nephropathy
Liver		Cirrhosis, Portal
	Bile Duct	Dilatation, Nos
Lung	Alveoli	Histiocytosis
Pancreas		Lipoidosis
Spleen		Hematopoiesis
Stomach	Fundus	Abscess, Chronic
Testis		Abscess, Nos
		Spermatogenic Arrest
Thyroid	Follicle	Atrophy, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_192

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Hyperplasia, Focal
Intestine Small	Jejunum	Regeneration, Incomplete
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive Necrosis, Focal
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas	Islets	Islet-Cell Adenoma Lipoidosis
Seminal vesicle		Mineralization Retention Of Content
Spleen		Hematopoiesis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_193

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Acute Focal
Intestine Large	Colon	Abscess, Nos
	Intestinal Tract	Postmortem Change
Kidney		Nephrosis, Pyo
Liver		Cyst, Nos
Lung		Inflammation, Interstitial
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Thyroid		Amyloidosis
		Hyperplasia, Follicular Cell

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_201

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Aorta Nos	Arteriosclerosis, Nos
Epididymis		Aspermatogenesis
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_202

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland Epididymis	Cortex Nos	Hyperplasia, Focal Cholesterol Deposit Spermatocele
Heart Intestine Large	Mitral Valve Nos Cecum, Colon Intestinal Tract	Inflammation, Proliferative Inflammation, Focal Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Pancreas		Postmortem Change
Spleen		Hypoplasia, Nos
Stomach	Fundus Cardiac Stomach	Atrophy, Nos Hyperkeratosis
Thymus Unspecified	Multiple Organs Nos	Involution, Nos Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_203

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Gastrointestinal Tract	Inflammation, Acute
Kidney		Nephropathy
Liver		Cirrhosis, Portal
		Cytoplasmic Vacuolization
	Bile Duct	Dilatation, Nos
Lung	Alveoli	Histiocytosis
Pancreas		Dilatation, Ducts
	Islets	Islet-Cell Adenoma
		Lipoidosis
Spleen		Hypoplasia, Nos
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Atrophy, Nos
		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_211

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Esophagus		Hyperkeratosis
Intestine Large	Anus Nos	Cyst, Epidermal Inclusion
Kidney	Glomerulus	Amyloidosis
		Nephropathy
		Nephrosis, Hydro
Parathyroid gland		Hyperplasia, Nos
Prostate		Inflammation, Chronic
Seminal vesicle		Inflammation, Acute Suppurative
Skin		Inflammation, Chronic
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Spermatogenic Arrest
Thymus		Involution, Nos
Thyroid		C-Cell Carcinoma
Urinary bladder		Hyperplasia, Epithelial

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_212

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Pancreas		Lipoidosis
Peritoneum		Inflammation, Nos
Stomach	Fundus	Erosion
Thymus		Involution, Nos
Thyroid	Follicle	Atrophy, Nos
Unspecified	Multiple Organs Nos	Lymphoma, Lymphocytic-Malignant Type

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_213

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Pheochromocytoma
Epididymis		Aspermatogenesis
Intestine Large	Anus Nos	Cyst, Epidermal Inclusion
Kidney	Glomerulus	Amyloidosis
	Papilla	Mineralization
		Nephropathy
Liver	Hepatic Lobule	Abscess, Nos
	Hepatic Lobule	Necrosis, Focal
Spleen		Hypoplasia, Lymphoid
Testis		Spermatogenic Arrest
Thyroid	Follicle	Atrophy, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_222

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Blood vessel  
Intestine Large  
Liver

Brachioceph. Artery  
Intestinal Tract

Centrilobular

Lung  
Pancreas

Spleen  
Thyroid  
Unspecified

Follicle  
Multiple Organs Nos

Embolism, Nos  
Postmortem Change  
Cirrhosis, Portal  
Congestion, Passive  
Cyst, Multiple  
Necrosis, Focal  
Inflammation, Interstitial  
Dilatation, Ducts  
Lipoidosis  
Hypoplasia, Nos  
Atrophy, Focal  
Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_223

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
	Cortex Nos	Hyperplasia, Focal
Heart	Left Atrium Nos	Thrombus, Organized
Kidney	Glomerulus	Amyloidosis
		Nephropathy
Lung	Alveoli	Histiocytosis
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Thyroid		Adenoma, Nos
		Cyst, Colloid

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_231

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis
Liver	Centrilobular	Congestion, Passive
		Cyst, Nos
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Skin	Circumanal Gland	Inflammation, Chronic
Spleen		Hematopoiesis
Thyroid	Follicle	Atrophy, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_232

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Mitral Valve Nos	Inflammation, Proliferative
Intestine Large	Large Intestine, Colon	Inflammation, Acute
	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
	Bile Duct	Dilatation, Nos
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Unspecified	Multiple Organs Nos	Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_233

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Inflammation, Acute Suppurative Spermatocoele
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Large Intestine, Colon Large Intestine, Colon Gastrointestinal Tract	Abscess, Nos Granulation Tissue Postmortem Change
Kidney		Nephropathy Nephrosis, Pyo Perivasculitis
Liver	Portal Tract Bile Duct	Degeneration, Hyaline Hyperplasia, Nos
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Prostate		Retention Of Content
Seminal vesicle		Retention Of Content
Spleen		Hyperplasia, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_241

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Pheochromocytoma
Epididymis		Aspermatogenesis
Kidney	Glomerulus	Amyloidosis
		Nephropathy
Liver	Hepatic Lobule	Abscess, Nos
		Cytoplasmic Vacuolization
		Necrosis, Focal
Lung	Alveoli	Atelectasis
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Spermatogenic Arrest
Urinary bladder		Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_242

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
Epididymis		Aspermatogenesis
Gall bladder		Retention Of Content
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Large Intestine, Colon	Inflammation, Nos
	Intestinal Tract	Postmortem Change
Kidney		Infarct, Nos
Liver		Congestion, Passive
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Testis		Spermatogenic Arrest
Thymus		Involution, Nos

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_243

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Epididymis		Oligospermia
Heart	Mitral Valve Nos	Inflammation, Proliferative
	Mitral Valve Nos	Thrombosis, Nos
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
	Centrilobular	Congestion, Passive
		Cyst, Nos
Lung		Abscess, Nos
	Alveoli	Inflammation, Acute Suppurative
	Bronchus	Inflammation, Acute Suppurative
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Prostate		Inflammation, Acute
Spleen		Hypoplasia, Nos
Stomach	Fundus	Erosion
Testis		Spermatogenic Arrest
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_251

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Hemorrhage
	Cortex Nos	Hyperplasia, Focal
Bone marrow		Aplasia, Hematopoietic
Epididymis		Oligospermia
Heart	Left Ventricle Nos	Embolism, Nos
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung		Inflammation, Interstitial
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_252

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland  
Intestine Large  
Intestine Small  
Liver  
Lung  
Lymph node  
Pancreas

Zona Glomerulosa  
Gastrointestinal Tract  
Ileum  
Centrilobular  
  
Mesenteric Lymph Node  
Islets

Metaplasia, Nos  
Postmortem Change  
Inflammation, Chronic  
Congestion, Passive  
Emphysema, Alveolar  
Hyperplasia, Nos  
Islet-Cell Adenoma  
Lipoidosis  
Adenoma, Nos

Parathyroid gland

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PRIMARY CAUSE OF DEATH

-

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_253

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland  
Epididymis

Intestine Large  
Kidney  
Liver  
Lung  
Pancreas  
Skeletal muscle  
Testis

Intestinal Tract

Unspecified

Multiple Organs Nos

Congestion, Nos  
Abscess, Nos  
Aspermatogenesis  
Spermatocoele  
Inflammation, Suppurative  
Nephropathy  
Cirrhosis, Portal  
Inflammation, Interstitial  
Lipoidosis  
Inflammation, Acute Focal  
Abscess, Nos  
Spermatogenic Arrest  
Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_261

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Intestine Small	Ileum	Postmortem Change
Kidney		Nephropathy
Liver		Cytoplasmic Vacuolization
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis
Skin		Verruca
Spleen		Hypoplasia, Nos
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_262

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Intestine Large	Gastrointestinal Tract	Postmortem Change
	Cecum, Colon	Ulcer, Focal
Kidney	Glomerulus	Amyloidosis
		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cyst, Multiple
	Bile Duct	Dilatation, Ducts
Lung		Congestion, Nos
Skin		Inflammation, Chronic Diffuse
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Thyroid	Follicle	Atrophy, Focal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_263

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Gastrointestinal Tract	Postmortem Change
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Pancreas		Postmortem Change
Spleen		Hematopoiesis
Thyroid	Follicle	Atrophy, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_271

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Carcinoma
	Cortex Nos	Hypoplasia, Nos
Intestine Large	Pericolonic Tissue, Colon	Inflammation, Pyogranulomatous
Kidney	Glomerulus	Amyloidosis
		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Prostate		Inflammation, Acute Suppurative
Spleen		Hematopoiesis
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis

PRIMARY CAUSE OF DEATH

-



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_272

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland  
Intestine Large  
Kidney  
Liver  
Spleen

Gastrointestinal Tract

Centrilobular

Cortical Adenoma  
Postmortem Change  
Nephropathy  
Congestion, Passive  
Hematopoiesis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_273

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
Epididymis		Aspermatogenesis
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
	Centrilobular	Congestion, Passive
Lung	Alveoli	Histiocytosis
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Prostate		Inflammation, Chronic
Seminal vesicle		Inflammation, Chronic
Spleen		Hematopoiesis
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_281

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung		Inflammation, Interstitial
Pancreas	Islets	Islet-Cell Adenoma
		Lipoidosis
Spleen		Hematopoiesis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_282

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Intestinal Tract	Postmortem Change
Liver	Centrilobular	Congestion, Passive
	Kupffer Cell	Pigmentation, Nos
Lung	Alveoli	Histiocytosis
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
		Degeneration, Hyaline
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis
	Perineum Nos	Granuloma, Nos
	Perineum Nos	Mineralization

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_283

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Aplasia, Hematopoietic
Heart		Dilatation, Nos
Intestine Large	Anus Nos	Cyst, Epidermal Inclusion
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cyst, Nos
	Bile Duct	Dilatation, Nos
Lung		Emphysema, Nos
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland		Cytoplasmic Vacuolization
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_293

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla Cortex Nos	Hyperplasia, Focal Hyperplasia, Focal Necrosis, Focal
Gall bladder		Edema, Nos
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lung	Alveoli	Histiocytosis
Pituitary gland		Cytoplasmic Vacuolization
Prostate		Inflammation, Acute Suppurative
Skeletal muscle		Inflammation, Acute Suppurative
Skin	Circumanal Gland	Acariasis Inflammation, Acute Suppurative Inflammation, Chronic
Stomach	Cardiac Stomach Cardiac Stomach	Acanthosis Hyperkeratosis
Unspecified	Multiple Organs Nos	Amyloidosis

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_301

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Brain		Malacia
Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cyst, Multiple
	Bile Duct	Hyperplasia, Nos
	Hepatic Lobule	Necrosis, Focal
Lung	Alveoli	Inflammation, Acute Focal
Prostate		Inflammation, Acute
	Coagulating Gland	Inflammation, Acute Suppurative
Seminal vesicle		Inflammation, Acute Suppurative
Skin		Inflammation, Chronic
Spleen		Hematopoiesis
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_302

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis Cortical Adenoma
Heart		Dilatation, Nos
Kidney		Nephropathy
Liver		Cyst, Nos
Lung	Alveoli	Histiocytosis
Pancreas		Lipoidosis
Spleen		Hypoplasia, Lymphoid

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_303

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos	Amyloidosis Hyperplasia, Focal
Brain		Malacia
Heart	Myocardium Nos	Abscess, Nos
Intestine Large	Rectum	Inflammation, Acute Hemorrhagic
Kidney		Glomerulonephritis, Acute Nephrosis, Pyo
Lung		Inflammation, Interstitial
Pancreas		Lipoidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_311

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos	Amyloidosis Congestion, Nos Cortical Adenoma Hyperplasia, Focal
Blood vessel	Medulla	Embolism, Nos
Epididymis	Brachioceph. Artery	Cast, Nos Dilatation, Nos Nephropathy
Heart		Congestion, Passive
Kidney	Centrilobular	Inflammation, Interstitial Hyperplasia, Nos
Liver		Lipoidosis
Lung		Inflammation, Acute Suppurative
Lymph node		Hematopoiesis
Pancreas		Hyperplasia, Interstitial Cell
Seminal vesicle		Spermatogenic Arrest
Spleen		Hyperplasia, Epithelial
Testis		
Urinary bladder		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_312

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Cyst, Multiple Hyperplasia, Focal
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive Necrosis, Focal
Lung	Alveoli	Histiocytosis
Pancreas		Lipoidosis
Stomach	Cardiac Stomach Cardiac Stomach Cardiac Stomach	Acanthosis Hyperkeratosis Ulcer, Nos

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_313

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis
Brain		Mineralization
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney	Cortex	Infarct, Focal
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung	Alveoli	Inflammation, Acute Diffuse
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Pancreas		Lipoidosis
Spleen		Hematopoiesis
		Hyperplasia, Lymphoid

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_321

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Left Ventricle Nos	Embolism, Nos
	Left Atrium Nos	Thrombus, Organized
Kidney	Glomerulus	Amyloidosis
		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Prostate		Abscess, Nos
		Inflammation, Acute Suppurative
Seminal vesicle		Inflammation, Acute Suppurative

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_322

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Intestine Large

Gastrointestinal Tract

Inflammation, Chronic

Kidney

Nephropathy

Liver

Centrilobular

Congestion, Passive

Cytoplasmic Vacuolization

Lung

Alveoli

Histiocytosis

Pancreas

Lipoidosis

Skin

Inflammation, Chronic

Unspecified

Multiple Organs Nos

Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_323

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Heart		Dilatation, Nos
Kidney		Nephropathy
Liver		Cirrhosis, Portal
	Centrilobular	Congestion, Passive
Lung	Alveoli	Inflammation, Acute Focal
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Skin		Inflammation, Chronic
Spleen	Red Pulp	Angiectasis
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_331

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Intestine Small  
Kidney

Ileum  
Glomerulus

Inflammation, Acute Suppurative  
Amyloidosis  
Nephropathy

Lymph node  
Spleen

Red Pulp

Hyperplasia, Nos  
Hematopoiesis  
Hypoplasia, Lymphoid  
Abscess, Nos

Unspecified

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_332

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Pancreas  
Thyroid  
Unspecified

Follicle  
Multiple Organs Nos

Lipoidosis  
Atrophy, Nos  
Lymphoma, Lymphocytic-Malignant Type

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_333

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Dilatation, Nos Hemorrhage Pheochromocytoma
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Rectum	Inflammation, Acute Suppurative
	Gastrointestinal Tract	Postmortem Change
Intestine Small	Duodenum	Inflammation, Acute Focal
Kidney		Nephropathy
Liver	Centrilobular	Cirrhosis, Portal Congestion, Passive Cytoplasmic Vacuolization Necrosis, Focal
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Spleen		Hematopoiesis
Unspecified	Multiple Organs Nos	Hypoplasia, Nos Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_341

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Blood vessel	Abdominal Aorta	Atherosclerosis
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive Cyst, Multiple Cytoplasmic Vacuolization Necrosis, Focal
Lung	Alveoli	Histiocytosis
Pancreas		Lipoidosis
Skin		Acariasis Inflammation, Chronic
Spleen		Hypoplasia, Nos
Stomach	Cardiac Stomach	Squamous Cell Papilloma
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_342

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Epididymis		Mineralization
Intestine Large	Intestinal Tract	Inflammation, Chronic
	Anus Nos	Metaplasia, Squamous
	Gastrointestinal Tract	Postmortem Change
Lung		Congestion, Nos
Pancreas		Lipoidosis
Unspecified	Multiple Organs Nos	Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_343

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Intestine Large	Gastrointestinal Tract	Postmortem Change
Liver	Centrilobular	Congestion, Passive
Lung	Alveoli	Histiocytosis
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pituitary gland		Cytoplasmic Vacuolization
Thyroid	Follicle	Atrophy, Nos

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_351

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Epididymis		Abscess, Nos
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Pancreas		Lipoidosis
Spleen		Hypoplasia, Nos
Testis		Abscess, Nos
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_352

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Epididymis  
Kidney  
Lung  
Pancreas  
Testis  
Unspecified

Multiple Organs Nos  
Multiple Organs Nos

Aspermatogenesis  
Nephropathy  
Congestion, Nos  
Lipoidosis  
Spermatogenic Arrest  
Amyloidosis  
Fibrosarcoma

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_353

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland  
Kidney  
Unspecified

Cortex Nos  
Multiple Organs Nos

Amyloidosis  
Nephropathy  
Postmortem Change

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_361

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart		Dilatation, Nos
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Pancreas		Dilatation, Ducts
		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Unspecified	Multiple Organs Nos	Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_362

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis Cast, Nos
Intestine Large	Large Intestine, Colon	Inflammation, Acute Focal
Kidney		Nephropathy
Liver	Centrilobular	Cirrhosis, Portal Congestion, Passive Necrosis, Focal
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Prostate		Inflammation, Chronic
Skin	Perineum	Inflammation, Chronic
Spleen		Angiectasis Hematopoiesis Hypoplasia, Nos
Testis		Spermatogenic Arrest
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos Abdominal Viscera	Amyloidosis Hernia, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_363

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
	Cortex Nos	Hyperplasia, Focal
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cyst, Multiple
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_371

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lung	Alveoli	Inflammation, Acute Diffuse
Lymph node		Hyperplasia, Nos
Prostate		Inflammation, Acute
Seminal vesicle		Abscess, Nos
Spleen		Hematopoiesis
Unspecified	Multiple Organs Nos	Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_372

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Epididymis		Abscess, Nos
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Prostate		Inflammation, Acute Suppurative
Seminal vesicle		Inflammation, Acute Suppurative
Testis		Abscess, Nos
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis
	Multiple Organs Nos	Postmortem Change

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_373

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
	Cortex Nos	Hyperplasia, Focal
Heart	Mitral Valve Nos	Inflammation, Proliferative
	Left Atrium Nos	Thrombus, Organized
Intestine Large	Large Intestine, Colon	Inflammation, Acute
Kidney		Nephropathy
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Spleen		Hypoplasia, Nos
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis
	Multiple Organs Nos	Postmortem Change

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_381

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Bone marrow		Congestion, Nos
Heart	Myocardium Nos	Calcification, Focal
	Atrium	Thrombus, Mural
Intestine Large	Intestinal Tract	Ulcer, Nos
Intestine Small	Ileum, Ileum	Ileitis, Regional
	Jejunum	Ileitis, Regional
Kidney	Pelvis	Calcification, Focal
		Infarct, Healed
	Tubule	Mineralization
Liver		Lymphocytic Inflammatory Infiltrate
Peritoneum		Inflammation, Nos
Stomach	Cardiac Stomach	Acanthosis
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis
	Multiple Organs Nos	Inflammation, Chronic
	Multiple Organs Nos	Inflammation, Chronic Focal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_382

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Thrombus, Organized
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lymph node		Hyperplasia, Nos
Pancreas	Islets	Islet-Cell Adenoma
Spleen		Hypoplasia, Nos
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_383

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Intestine Large  
Lung  
Pancreas  
Thymus  
Thyroid

Gastrointestinal Tract

Follicle

Cortical Carcinoma  
Postmortem Change  
Histiocytosis  
Lipoidosis  
Involution, Nos  
Atrophy, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_391

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Intestine Small	Ileum	Inflammation, Chronic
Kidney		Nephropathy
Liver	Bile Duct	Dilatation, Nos
		Necrosis, Focal
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis
	Multiple Organs Nos	Lymphoma, Lymphocytic-Malignant Type

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_392

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Epididymis

Aspermatogenesis

Kidney

Inflammation, Chronic

Liver

Centrilobular

Nephropathy

Congestion, Passive

Seminal vesicle

Necrosis, Focal

Inflammation, Chronic

Spleen

Mineralization

Hyperplasia, Lymphoid

Testis

Spermatogenic Arrest

Thymus

Involution, Nos

Unspecified

Multiple Organs Nos

Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_393

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Intestine Large	Large Intestine, Colon	Abscess, Nos
	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Prostate		Inflammation, Chronic
Seminal vesicle		Inflammation, Chronic
Skeletal muscle		Mineralization
Skin	Circumanal Gland	Inflammation, Chronic
Spleen	Red Pulp	Hypoplasia, Nos
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_401

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Intestine Large	Cecum, Colon	Abscess, Nos
	Cecum, Colon	Inflammation, Nos
	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Hepatic Lobule	Abscess, Nos
	Hepatic Lobule	Necrosis, Focal
Pituitary gland		Cytoplasmic Vacuolization
Spleen		Hypoplasia, Nos
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis
Urinary bladder		Hyperplasia, Papillary
		Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_402

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
	Cortex Nos	Hyperplasia, Focal
Heart	Left Atrium Nos	Thrombus, Organized
Kidney	Glomerulus	Amyloidosis
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung		Inflammation, Granulomatous Focal
Pituitary gland		Cytoplasmic Vacuolization
Prostate		Inflammation, Acute Suppurative
Seminal vesicle		Inflammation, Suppurative
Urinary bladder		Hyperplasia, Papillary
		Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_403

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland Epididymis	Cortex Nos	Hyperplasia, Focal Aspermatogenesis Spermatocoele
Heart	Mitral Valve Nos Mitral Valve Nos	Inflammation, Proliferative Thrombosis, Nos
Intestine Large Kidney	Gastrointestinal Tract	Postmortem Change Nephropathy
Liver Lung Pancreas Pituitary gland	Centrilobular Alveoli	Congestion, Passive Histiocytosis Lipoidosis Cytoplasmic Vacuolization Degeneration, Hyaline
Prostate Spleen Testis Thymus Unspecified	Multiple Organs Nos	Hyperplasia, Epithelial Hypoplasia, Nos Spermatogenic Arrest Involution, Nos Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_411

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Epididymis		Abscess, Nos
		Spermatocele
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
	Bile Duct	Inflammation, Nos
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Prostate		Inflammation, Acute/Chronic
Seminal vesicle		Perivasculitis
Skin	Circumanal Gland	Inflammation, Chronic
Spleen		Hematopoiesis
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_412

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Intestine Large	Intestinal Tract	Inflammation, Chronic
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
	Bile Duct	Inflammation, Nos
		Necrosis, Focal
Lung	Alveoli	Metaplasia, Osseous
Lymph node		Hyperplasia, Nos
Pancreas	Islets	Islet-Cell Adenoma
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
	Cardiac Stomach	Ulcer, Nos
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_413

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Heart  
Intestine Large  
Kidney  
Liver  
Lung  
Lymph node  
Pituitary gland

Cortex Nos  
Left Atrium Nos  
Gastrointestinal Tract  
  
Centrilobular  
Alveoli  
Cervical Lymph Node Nos

Amyloidosis  
Thrombus, Organized  
Postmortem Change  
Nephropathy  
Congestion, Passive  
Histiocytosis  
Cyst, Nos  
Cytoplasmic Vacuolization

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_421

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Congestion, Nos
Bone marrow		Congestion, Nos
Epididymis		Abscess, Nos
Intestine Large	Gastrointestinal Tract	Inflammation, Acute Suppurative
	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Spleen		Hematopoiesis
		Hypoplasia, Lymphoid
Testis		Abscess, Nos
		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_422

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Pancreas		Lipoidosis
Unspecified	Multiple Organs Nos	Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_423

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive Necrosis, Focal
Lung	Alveoli	Histiocytosis
Spleen		Hypoplasia, Lymphoid
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Thymus		Involution, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_431

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Lung		Inflammation, Interstitial
Skin	Circumanal Gland	Inflammation, Acute
Unspecified	Multiple Organs Nos	Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_432

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Aplasia, Hematopoietic
Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cyst, Multiple
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Lymph node	Cervical Lymph Node Nos	C-Cell Carcinoma, Metastatic
Pancreas	Islets	Hyperplasia, Nos
Prostate		Inflammation, Acute Suppurative
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Spermatogenic Arrest
Thymus		Involution, Nos
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_433

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Kidney		Nephropathy
Liver	Bile Duct	Dilatation, Nos
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_441

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Intestine Large

Gastrointestinal Tract

Postmortem Change

Kidney

Nephropathy

Liver

Cirrhosis, Portal

Lymph node

Mesenteric Lymph Node

Hyperplasia, Nos

Pancreas

Lipoidosis

Salivary gland

Submaxillary Gland Nos

Fibrosing Adenosis

Spleen

Hypoplasia, Nos

Stomach

Cardiac Stomach

Acanthosis

Unspecified

Cardiac Stomach

Hyperkeratosis

Multiple Organs Nos

Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_442

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
	Zona Glomerulosa	Metaplasia, Nos
Gall bladder		Calculus, Unknown Gross Or Micro
		Edema, Nos
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Anus Nos	Cyst, Epidermal Inclusion
Kidney	Glomerulus	Amyloidosis
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
	Thoracic Lymph Node	Sarcoma, Nos, Metastatic
Pituitary gland		Cytoplasmic Vacuolization
		Degeneration, Hyaline
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Thyroid	Follicle	Atrophy, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_443

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive Necrosis, Focal
Lung	Alveoli	Histiocytosis
Spleen		Congestion, Passive
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
	Cardiac Stomach	Ulcer, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_451

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Neuroblastoma
Epididymis		Aspermatogenesis
		Cast, Nos
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
Lung		Inflammation, Interstitial
Lymph node	Thoracic Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Spermatogenic Arrest

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_452

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Bone marrow		Congestion, Nos
Intestine Large	Intestinal Tract	Inflammation, Acute Suppurative
	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Nos
		Inflammation, Nos
Lymph node		Hyperplasia, Nos
Prostate		Retention Of Content
Seminal vesicle		Retention Of Content
Spleen		Hypoplasia, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_453

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_461

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Seminal vesicle		Inflammation, Chronic
		Mineralization
Testis		Spermatogenic Arrest
Thyroid		C-Cell Carcinoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_462

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Medulla

Cortical Carcinoma

Blood vessel

Brachioceph. Artery

Hyperplasia, Focal

Epididymis

Atherosclerosis

Kidney

Spermatocele

Liver

Centrilobular

Nephropathy

Cirrhosis, Portal

Congestion, Passive

Cyst, Multiple

Pancreas

Lipoidosis

Parathyroid gland

Adenoma, Nos

Pituitary gland

Cytoplasmic Vacuolization

Spleen

Hyperplasia, Nos

Stomach

Mineralization

Testis

Spermatogenic Arrest

Thymus

Involution, Nos

Unspecified

Multiple Organs Nos

Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_463

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Abscess, Nos Aspermatogenesis Atrophy, Nos
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Rectum	Hyperplasia, Papillary
Intestine Small	Jejunum	Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lung		Inflammation, Interstitial
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Salivary gland		Inflammation, Acute
Spleen		Hypoplasia, Nos
Testis		Spermatogenic Arrest
Thymus		Hypoplasia, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_472

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Epididymis		Aspermatogenesis
Intestine Large	Rectum	Prolapse
Kidney	Glomerulus	Amyloidosis
Stomach	Cardiac Stomach	Hyperplasia, Papillary
Thyroid		Cyst, Colloid

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_473

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Heart	Mitral Valve Nos	Inflammation, Chronic
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lung	Alveoli	Histiocytosis
Pancreas		Postmortem Change
Pituitary gland		Cytoplasmic Vacuolization
Spleen		Hypoplasia, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_481

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
	Zona Glomerulosa	Metaplasia, Nos
Blood vessel	Aorta Nos	Embolism, Nos
Brain		Cytoplasmic Vacuolization
Epididymis		Cast, Nos
Intestine Large	Anus Nos	Cyst, Epidermal Inclusion
Kidney	Glomerulus	Amyloidosis
	Cortex	Infarct, Nos
Liver		Cyst, Multiple
		Necrosis, Focal
Lung		Emphysema, Alveolar
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Pancreas		Lipoidosis
Spleen		Cyst, Hemorrhagic
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Spermatogenic Arrest
Thymus		Involution, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_482

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Intestine Large

Gastrointestinal Tract

Postmortem Change

Kidney

Nephropathy

Liver

Cirrhosis, Portal

Pancreas

Lipoidosis

Pituitary gland

Cytoplasmic Vacuolization

Unspecified

Multiple Organs Nos

Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_483

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_491

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Thyroid

Follicle

Atrophy, Nos

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_492

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Cyst, Nos

Bone marrow

Hemorrhage

Heart

Aplasia, Hematopoietic

Kidney

Dilatation, Nos

Liver

Centrilobular

Nephropathy

Hepatic Lobule

Congestion, Passive

Pancreas

Cytoplasmic Vacuolization

Pituitary gland

Necrosis, Focal

Spleen

Lipoidosis

Unspecified

Multiple Organs Nos

Cytoplasmic Vacuolization

Atrophy, Nos

Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_493

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Intestine Large  
Kidney  
Liver

Gastrointestinal Tract

Postmortem Change

Lung  
Lymph node  
Pancreas  
Unspecified

Bile Duct  
Alveoli

Nephropathy  
Cirrhosis, Portal  
Inflammation, Nos  
Histiocytosis  
Hyperplasia, Nos  
Lipoidosis  
Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_501

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Fibrosis
		Hemosiderosis
	Cortex Nos	Hyperplasia, Nos
Brain	Meninges	Congestion, Nos
Intestine Large	Large Intestine, Colon	Inflammation, Chronic Focal
	Intestinal Tract	Postmortem Change
Kidney		Mineralization
		Nephropathy
Liver		Congestion, Nos
Lung		Alveolar Macrophages
		Congestion, Nos
		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Hyperplasia, Lymphoid
Thyroid	Follicle	Atrophy, Nos
Unspecified	Multiple Organs Nos	Amyloidosis
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_503

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Chronic
	Mitral Valve Nos	Thrombosis, Nos
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Congestion, Nos
Liver	Centrilobular	Congestion, Nos
	Centrilobular	Necrosis, Nos
Lung	Alveoli	Histiocytosis
Lymph node	Mandibular Lymph Node	Congestion, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_511

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive Necrosis, Focal
Lung	Alveoli	Histiocytosis
Pancreas	Acinus	Cyst, Nos Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Skin	Circumanal Gland	Inflammation, Chronic Inflammation, Chronic
Spleen		Hematopoiesis Hypoplasia, Lymphoid
Stomach	Cardiac Stomach Cardiac Stomach	Acanthosis Hyperkeratosis
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_512

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis Hemorrhage
Liver	Centrilobular	Congestion, Passive
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Urinary bladder		Calculus, Unknown Gross Or Micro

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_513

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Heart	Mitral Valve Nos	Inflammation, Chronic
	Left Ventricle Nos	Thrombosis, Nos
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
		Degeneration, Hyaline
Spleen		Hyperplasia, Nos
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_521

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Carcinoma
	Medulla	Hyperplasia, Focal
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
Lung	Alveoli	Histiocytosis
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Prostate		Abscess, Nos
Skin		Acariasis
		Inflammation, Chronic
Spleen		Hypoplasia, Lymphoid
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Thymus		Cyst, Multiple
		Involution, Nos
Unspecified		Abscess, Nos
	Multiple Organs Nos	Amyloidosis

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_522

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis
Bone marrow		Hyperplasia, Nos
Epididymis		Aspermatogenesis
Intestine Large	Intestinal Tract	Inflammation, Acute Suppurative
	Gastrointestinal Tract	Postmortem Change
Kidney		Glomerulonephritis, Nos
Liver		Cirrhosis, Portal
Lymph node		Hyperplasia, Nos
Prostate		Retention Of Content
Seminal vesicle		Retention Of Content
Spleen		Hypoplasia, Lymphoid
Stomach	Fundus	Hyperplasia, Papillary
Testis		Spermatogenic Arrest

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_523

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Congestion, Nos
Bone marrow		Congestion, Nos
Epididymis		Abscess, Nos
Intestine Large	Gastrointestinal Tract	Inflammation, Suppurative
Kidney		Nephropathy
Liver		Cirrhosis, Portal
	Centrilobular	Congestion, Nos
Lung		Abscess, Nos
		Inflammation, Interstitial
		Thrombus, Organized
Lymph node		Hyperplasia, Nos
Skin		Scar
Spleen		Hypoplasia, Lymphoid
Testis		Hyperplasia, Interstitial Cell
		Inflammation, Nos
	Tubule	Mineralization
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_531

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Testis		Abscess, Nos
Thymus		Involution, Nos
Thyroid	Follicle	Atrophy, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_532

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Cortical Adenoma

Intestine Large

Gastrointestinal Tract

Dilatation, Nos

Kidney

Cortex

Postmortem Change

Liver

Centrilobular

Infarct, Nos

Lung

Necrosis, Diffuse

Lymph node

Mesenteric Lymph Node

Congestion, Passive

Pancreas

Congestion, Nos

Prostate

Hyperplasia, Nos

Skin

Lipoidosis

Stomach

Circumanal Gland

Inflammation, Chronic Focal

Thyroid

Follicle

Inflammation, Acute

Acanthosis

Hyperkeratosis

Atrophy, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_533

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Amyloidosis  
Hamartoma

Unspecified

Multiple Organs Nos

Lymphoma, Lymphocytic-Malignant Type

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_541

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Pericolonic Tissue, Colon	Abscess, Nos
	Pericolonic Tissue, Colon	Inflammation, Pyogranulomatous
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pancreas	Islets	Islet-Cell Adenoma
Spleen		Hematopoiesis
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_542

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Bone marrow		Aplasia, Hematopoietic
Epididymis		Cast, Nos
Heart		Dilatation, Nos
	Left Atrium Nos	Thrombus, Organized
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Bile Duct	Dilatation, Nos
		Inflammation, Acute Suppurative
Lung	Alveoli	Histiocytosis
Pituitary gland		Cytoplasmic Vacuolization
Spleen		Hypoplasia, Lymphoid
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_543

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lung	Alveoli	Inflammation, Acute Diffuse
Spleen		Hypoplasia, Lymphoid
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis
	Multiple Organs Nos	Postmortem Change

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_551

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Epididymis

Granuloma, Spermatic  
Mineralization

Intestine Large

Gastrointestinal Tract

Postmortem Change

Liver

Centrilobular

Congestion, Passive

Lung

Alveoli

Necrosis, Focal

Pancreas

Histiocytosis

Stomach

Fundus

Lipoidosis

Thyroid

Follicle

Carcinoma In Situ, Nos

Atrophy, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_552

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Atrophy, Nos
Intestine Large	Intestinal Tract	Thrombus, Organized
Kidney		Postmortem Change
Liver		Nephropathy
Lung		Cirrhosis, Portal
Lymph node		Inflammation, Interstitial
Pancreas		Hyperplasia, Lymphoid
Spleen	Capsule	Lipoidosis
Thymus		Hemangioma
Unspecified	Multiple Organs Nos	Involution, Nos
		Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_553

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Chronic Diffuse
Kidney		Nephropathy
Unspecified	Multiple Organs Nos	Amyloidosis
	Multiple Organs Nos	Postmortem Change

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_571

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lymph node	Mesenteric Lymph Node	Inflammation, Chronic
Pancreas	Islets	Islet-Cell Adenoma
Seminal vesicle		Inflammation, Suppurative
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_572

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Gall bladder		Dilatation, Nos
		Hyperplasia, Polypoid
Intestine Large	Cecum, Colon	Hyperplasia, Epithelial
	Cecum, Colon	Hyperplasia, Papillary
	Cecum, Colon	Inflammation, Acute
	Cecum, Colon	Inflammation, Chronic
Kidney		Nephropathy
Liver		Cytoplasmic Vacuolization
	Bile Duct	Inflammation, Nos
Lung		Granuloma, Nos
		Inflammation, Nos
Lymph node		Hyperplasia, Nos
Peritoneum		Inflammation, Nos
Pituitary gland		Cytoplasmic Vacuolization
Skin		Inflammation, Chronic
Spleen		Hematopoiesis
Thymus		Involution, Nos
Thyroid	Follicle	Atrophy, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_573

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal Pheochromocytoma
Blood vessel	Brachioceph. Artery	Embolism, Nos
Epididymis		Cast, Nos Mineralization
Intestine Large	Gastrointestinal Tract	Postmortem Change
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Stomach	Cardiac Stomach Cardiac Stomach	Acanthosis Hyperkeratosis
Testis		Spermatogenic Arrest
Thymus		Involution, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_581

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Tubular-Cell Adenocarcinoma
Liver	Centrilobular	Congestion, Passive
Lung	Alveoli	Histiocytosis
Pancreas		Lipoidosis
Pituitary gland		Cyst, Nos
		Cytoplasmic Vacuolization
Spleen	Red Pulp	Amyloidosis
Thyroid	Follicle	Atrophy, Nos
		C-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_582

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Gall bladder		Edema, Nos
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver		Cirrhosis, Portal
		Cyst, Multiple
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_583

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Epididymis		Spermatocele
Kidney	Glomerulus	Amyloidosis
		Nephropathy
Liver	Centrilobular	Congestion, Passive
Lung		Pneumonia, Interstitial Chronic
Seminal vesicle		Inflammation, Acute Suppurative

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_591

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Aplasia, Hematopoietic
Epididymis		Cast, Nos
		Spermatocele
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Testis		Spermatogenic Arrest

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_592

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis Spermatocoele
Intestine Large	Gastrointestinal Tract Gastrointestinal Tract	Inflammation, Suppurative Postmortem Change
Liver	Portal Tract  Periportal	Amyloidosis Inflammation, Acute Necrosis, Focal Inflammation, Acute Diffuse
Lung		Hyperplasia, Nos
Lymph node		Lipoidosis
Pancreas		Retention Of Content
Prostate		Retention Of Content
Seminal vesicle		Hypoplasia, Nos
Spleen		Spermatogenic Arrest
Testis		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_593

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Intestine Large

Gastrointestinal Tract

Inflammation, Suppurative

Kidney

Gastrointestinal Tract

Postmortem Change

Liver

Nephropathy

Lung

Cirrhosis, Portal

Lymph node

Inflammation, Interstitial

Pancreas

Hyperplasia, Nos

Thymus

Lipoidosis

Unspecified

Involution, Nos

Multiple Organs Nos

Amyloidosis

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_601

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Intestine Large  
Lymph node  
Spleen  
Testis

Cecum, Colon  
Colo-Rectal Lymph Node

Postmortem Change  
Hyperplasia, Nos  
Hematopoiesis  
Spermatogenic Arrest

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_602

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Intestine Large	Colon	Inflammation, Nos
Intestine Small	Ileum	Inflammation, Acute Focal
Kidney		Nephropathy
Liver	Centrilobular	Hepatocytomegaly
		Necrosis, Central
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Prostate		Retention Of Content
Salivary gland		Dilatation, Ducts
Seminal vesicle		Retention Of Content
Spleen		Hypoplasia, Nos
Testis		Spermatogenic Arrest

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_603

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Lung	Alveoli	Histiocytosis
Pancreas	Islets	Islet-Cell Adenoma
		Lipoidosis

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_611

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Colon	Inflammation, Acute
	Rectum	Inflammation, Nos
	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Hematopoiesis
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis
Spleen		Hematopoiesis
Thyroid	Follicle	Atrophy, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_612

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Cortical Carcinoma

Heart

Left Atrium Nos

Persistent Embryonic Structure

Intestine Small

Ileum

Thrombus, Organized

Kidney

Glomerulus

Inflammation, Chronic

Liver

Centrilobular

Amyloidosis

Lymph node

Congestion, Passive

Pancreas

Hyperplasia, Nos

Parathyroid gland

Lipoidosis

Stomach

Cardiac Stomach

Adenoma, Nos

Thyroid

Cardiac Stomach

Acanthosis

Hyperkeratosis

Cyst, Colloid

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_613

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland Epididymis	Cortex Nos	Hyperplasia, Nos Mineralization Spermatocoele
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Large Intestine, Colon	Abscess, Nos
Kidney		Nephropathy
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_622

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Intestine Large  
Kidney  
Liver  
Lung  
Lymph node  
Pancreas  
Spleen  
Thymus  
Unspecified

Gastrointestinal Tract  
  
Centrilobular  
Alveoli  
Cervical Lymph Node Nos  
  
Multiple Organs Nos

Pheochromocytoma  
Postmortem Change  
Nephropathy  
Congestion, Passive  
Histiocytosis  
Hyperplasia, Nos  
Lipoidosis  
Hematopoiesis  
Involution, Nos  
Amyloidosis

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_623

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Intestine Large  
Kidney  
Liver  
Lung  
Lymph node  
Thymus  
Unspecified

Large Intestine, Colon

Alveoli

Multiple Organs Nos

Multiple Organs Nos

Inflammation, Nos  
Nephropathy  
Cirrhosis, Portal  
Inflammation, Acute  
Hyperplasia, Nos  
Involution, Nos  
Amyloidosis  
Postmortem Change

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_631

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Brain	Meninges	Inflammation, Suppurative
Eye		Inflammation, Suppurative
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Small	Mesentery Nos	Abscess, Nos
	Mesentery Nos	Fibrosis
Kidney		Nephropathy
Liver		Cirrhosis, Portal
		Cyst, Nos
Lung	Alveoli	Histiocytosis
Salivary gland		Dilatation, Nos
		Edema, Nos
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Degeneration, Nos
Unspecified	Multiple Organs Nos	Amyloidosis
Urinary bladder		Hyperplasia, Epithelial

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_632

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Epididymis		Aspermatogenesis
Intestine Large	Colon	Inflammation, Proliferative
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lymph node		Hyperplasia, Nos
Spleen		Hematopoiesis
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_633

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
		Spermatocele
Kidney		Nephropathy
Liver		Cirrhosis, Portal
	Bile Duct	Dilatation, Nos
Lung		Inflammation, Interstitial
Skin		Inflammation, Chronic
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis
Urinary bladder		Hyperplasia, Papillary
		Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_641

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Abdominal Aorta	Atherosclerosis
Epididymis		Aspermatogenesis
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Lung	Alveoli	Histiocytosis
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Pancreas		Lipoidosis
Unspecified	Multiple Organs Nos	Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_642

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Mineralization
		Spermatocele
Intestine Large	Cecum, Colon	Abscess, Nos
	Gastrointestinal Tract	Inflammation, Suppurative
	Gastrointestinal Tract	Postmortem Change
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Prostate		Retention Of Content
Seminal vesicle		Retention Of Content
Spleen		Amyloidosis
		Hyperplasia, Nos
Testis		Spermatogenic Arrest
Thymus		Involution, Nos

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_643

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive Necrosis, Focal
Lung		Pneumonia, Interstitial Chronic
Pancreas		Lipoidosis
Seminal vesicle		Inflammation, Chronic Focal Mineralization
Spleen		Hematopoiesis
Unspecified	Multiple Organs Nos	Amyloidosis
Urinary bladder	Submucosa	Edema, Nos

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_651

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma Hemorrhage
Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Thrombus, Organized
Kidney	Glomerulus	Amyloidosis Nephropathy
Liver	Centrilobular	Congestion, Passive Necrosis, Focal
Lung		Inflammation, Interstitial
Lymph node	Renal Lymph Node	Ectopia
Pancreas	Islets	Islet-Cell Carcinoma
Pituitary gland		Cytoplasmic Vacuolization
Testis		Spermatogenic Arrest
Thyroid		Cyst, Colloid

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_652

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Bone marrow		Congestion, Nos
Intestine Large	Intestinal Tract	Inflammation, Acute Suppurative
	Intestinal Tract	Ulcer, Nos
Kidney		Glomerulonephritis, Acute
Lymph node	Mesenteric Lymph Node	Cyst, Nos
		Hyperplasia, Nos

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_653

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Prostate		Inflammation, Acute Suppurative
Spleen		Hypoplasia, Nos
Stomach	Cardiac Stomach	Hyperkeratosis
Testis		Abscess, Nos
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_661

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
	Cortex Nos	Hypoplasia, Nos
Heart	Left Atrium Nos	Thrombus, Organized
Kidney	Glomerulus	Amyloidosis
		Nephropathy
Liver	Hepatic Lobule	Atrophy, Nos
	Centrilobular	Congestion, Passive
Lung	Alveoli	Histiocytosis
Pancreas	Islets	Islet-Cell Adenoma
		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Prostate		Inflammation, Acute Suppurative
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_662

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland  
Intestine Large

Serosa, Colon  
Colon  
Intestinal Tract  
Centrilobular  
Alveoli

Liver  
Lung  
Lymph node  
Pancreas  
Pituitary gland  
Thymus

Cortical Adenoma  
Abscess, Nos  
Inflammation, Acute Focal  
Postmortem Change  
Congestion, Passive  
Histiocytosis  
Hyperplasia, Nos  
Lipoidosis  
Cytoplasmic Vacuolization  
Involution, Nos

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_663

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Intestine Large

Cecum, Colon

Abscess, Nos

Kidney

Intestinal Tract

Postmortem Change

Lung

Alveoli

Nephropathy

Lymph node

Cervical Lymph Node Nos

Perivasculitis

Pancreas

Inflammation, Acute Diffuse

Thyroid

Follicle

Hyperplasia, Nos

Unspecified

Multiple Organs Nos

Lipoidosis

Atrophy, Nos

Amyloidosis

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_671

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

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**OBSERVATIONS**

Epididymis		Granuloma, Spermatic
Liver	Periportal	Amyloidosis
Testis		Hypospermatogenesis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_672

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Amyloidosis
		Nephropathy
Liver	Centrilobular	Congestion, Passive
	Hepatic Lobule	Necrosis, Focal
Lymph node	Mesenteric Lymph Node	Edema, Nos
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Skin		Inflammation, Acute
Testis		Spermatogenic Arrest
Thymus		Involution, Nos
Thyroid	Follicle	Atrophy, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_673

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Abscess, Nos
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Cecum, Colon	Inflammation, Acute Focal
Intestine Small	Ileum	Postmortem Change
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lung		Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Prostate		Hyperplasia, Epithelial
		Inflammation, Acute Suppurative
Spleen		Hyperplasia, Nos
Stomach	Cardiac Stomach	Hyperkeratosis
Testis		Abscess, Nos
		Hyospermatogenesis
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_681

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Kidney		Nephropathy
Spleen		Hypoplasia, Lymphoid
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis
	Multiple Organs Nos	Postmortem Change

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_682

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal Pheochromocytoma
Epididymis		Spermatocele
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive Necrosis, Focal
Lymph node	Mesenteric Lymph Node	Lymphoma, Histiocytic-Malignant Type
Skin	Circumanal Gland	Inflammation, Chronic
Spleen		Hypoplasia, Lymphoid
Stomach	Cardiac Stomach	Ulcer, Nos
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_683

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Focal
Intestine Large	Anus Nos	Cyst, Epidermal Inclusion
	Gastrointestinal Tract	Postmortem Change
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Pituitary gland		Cytoplasmic Vacuolization
Prostate		Inflammation, Acute Suppurative
Seminal vesicle		Inflammation, Chronic Focal
Spleen		Hematopoiesis
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Urinary bladder		Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_691

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

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**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Pancreas		Lipoidosis
Thyroid		C-Cell Carcinoma

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_692

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Bone marrow		Congestion, Nos
Kidney		Glomerulonephritis, Acute
Liver	Centrilobular	Congestion, Nos
		Necrosis, Nos
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Spleen		Hyperplasia, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_693

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Intestine Large

Gastrointestinal Tract

Inflammation, Acute Suppurative

Gastrointestinal Tract

Postmortem Change

Kidney

Glomerulonephritis, Chronic

Liver

Portal Tract

Lymphocytic Inflammatory Infiltrate

Lymph node

Hyperplasia, Nos

Pancreas

Lipoidosis

Prostate

Retention Of Content

Seminal vesicle

Retention Of Content

Spleen

Red Pulp

Hypoplasia, Nos

Unspecified

Multiple Organs Nos

Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_701

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Bone marrow		Aplasia, Hematopoietic
Epididymis		Aspermatogenesis
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Anus Nos	Cyst, Epidermal Inclusion
	Cecum, Colon	Inflammation, Acute Suppurative
	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Hepatic Lobule	Cytoplasmic Vacuolization
Lung		Inflammation, Interstitial
Pituitary gland		Cytoplasmic Vacuolization
Prostate		Hyperplasia, Epithelial
Spleen		Hypoplasia, Lymphoid
Testis		Hyperplasia, Interstitial Cell Spermatogenic Arrest

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_703

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Amyloidosis Hyperplasia, Focal
Epididymis		Abscess, Nos
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive Necrosis, Focal
Lung	Alveoli	Histiocytosis
Prostate		Inflammation, Acute Suppurative
Seminal vesicle		Inflammation, Acute Suppurative
Stomach	Cardiac Stomach Cardiac Stomach	Acanthosis Hyperkeratosis
Urinary bladder		Hyperplasia, Papillary

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_721

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Inflammation, Acute Suppurative
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney	Glomerulus	Amyloidosis
Liver	Centrilobular	Congestion, Passive
Lung	Alveoli	Histiocytosis
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Prostate		Inflammation, Acute Suppurative
Salivary gland		Inflammation, Acute Focal
Seminal vesicle		Inflammation, Acute Suppurative
Spleen		Hematopoiesis
Testis		Inflammation, Acute Focal
		Spermatogenic Arrest
Thymus		Involution, Nos

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_722

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Heart	Mitral Valve Nos Myocardium Nos Mitral Valve Nos	Inflammation, Proliferative Mineralization Thrombosis, Nos
Kidney		Nephropathy
Liver		Cirrhosis, Portal Inflammation, Acute
Lung	Alveoli	Congestion, Nos
Salivary gland		Inflammation, Nos
Spleen		Hypoplasia, Nos
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos Multiple Organs Nos	Amyloidosis Postmortem Change

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_723

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis  
Intestine Large

Intestinal Tract  
Rectum  
Gastrointestinal Tract  
Glomerulus

Kidney  
Lymph node  
Pancreas  
Pituitary gland  
Prostate  
Testis  
Thymus  
Thyroid

Aspermatogenesis  
Inflammation, Acute  
Inflammation, Nos  
Postmortem Change  
Inflammation, Acute  
Hyperplasia, Nos  
Lipoidosis  
Cytoplasmic Vacuolization  
Hyperplasia, Epithelial  
Spermatogenic Arrest  
Involution, Nos  
Atrophy, Nos  
Cyst, Colloid

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_731

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Bone marrow		Congestion, Nos
Intestine Small	Duodenum	Inflammation, Nos
Liver	Bile Duct	Hyperplasia, Nos
	Portal Tract	Lymphocytic Inflammatory Infiltrate
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Spleen		Necrosis, Focal
Stomach	Fundus	Inflammation, Acute
Unspecified		Abscess, Nos

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_732

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Intestine Large	Gastrointestinal Tract	Inflammation, Acute Suppurative
Intestine Small	Ileum, Ileum	Inflammation, Proliferative
	Jejunum	Inflammation, Proliferative
Liver		Cirrhosis, Portal
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Prostate		Retention Of Content
Seminal vesicle		Retention Of Content
Spleen		Hypoplasia, Nos
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis
Urinary bladder	Serosa	Granulation Tissue

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_733

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Dilatation, Nos
Epididymis		Aspermatogenesis
		Spermatocele
Heart	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Pancreas	Islets	Islet-Cell Adenoma
Parathyroid gland		Adenoma, Nos
Prostate		Inflammation, Chronic
		Spermatocele
Spleen		Hematopoiesis
Stomach	Fundus	Erosion
Testis		Spermatogenic Arrest
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_742

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Necrosis, Focal
Intestine Small	Ileum	Inflammation, Acute Focal
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
	Cardiac Stomach	Ulcer, Nos
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_743

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Hemorrhage
		Pheochromocytoma
Intestine Large	Colon	Inflammation, Chronic
	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Cyst, Nos
	Bile Duct	Dilatation, Nos
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Unspecified	Multiple Organs Nos	Amyloidosis

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_751

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Focal
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive Cyst, Multiple Necrosis, Focal
Prostate		Inflammation, Acute Suppurative
Spleen		Hypoplasia, Lymphoid
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Unspecified	Multiple Organs Nos	Amyloidosis

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_752

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Medulla

Cortical Carcinoma

Epididymis

Hyperplasia, Focal

Aspermatogenesis

Kidney

Cast, Nos

Nephropathy

Liver

Centrilobular

Congestion, Passive

Necrosis, Focal

Lung

Alveoli

Histiocytosis

Prostate

Inflammation, Acute Suppurative

Seminal vesicle

Inflammation, Acute Suppurative

Spleen

Hypoplasia, Lymphoid

Testis

Hyperplasia, Interstitial Cell

Spermatogenic Arrest

Thyroid

Follicle

Atrophy, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_753

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Epididymis

Abscess, Nos

Kidney

Aspermatogenesis

Liver

Nephropathy

Lung

Alveoli

Cirrhosis, Portal

Pancreas

Congestion, Nos

Prostate

Lipoidosis

Seminal vesicle

Inflammation, Acute Suppurative

Spleen

Inflammation, Acute Suppurative

Stomach

Cardiac Stomach

Hypoplasia, Nos

Testis

Hyperkeratosis

Thymus

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Spermatogenic Arrest

Multiple Organs Nos

Involution, Nos

Amyloidosis

Postmortem Change

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_761

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis Hemorrhage Pheochromocytoma, Malignant
Heart	Left Atrium Nos	Thrombus, Organized
Liver	Centrilobular	Congestion, Passive Cyst, Nos
	Hepatic Lobule	Necrosis, Focal Inflammation, Interstitial
Lung		
Lymph node	Cervical Lymph Node Nos Cervical Lymph Node Nos	Congestion, Nos Hyperplasia, Nos
Pancreas		Lipoidosis
Salivary gland		Inflammation, Acute
Spleen		Hematopoiesis Hyperplasia, Lymphoid

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_762

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Hemorrhage
		Pheochromocytoma
Epididymis		Aspermatogenesis
		Spermatocele
Intestine Large	Gastrointestinal Tract	Postmortem Change
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung		Inflammation, Interstitial
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_763

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Hemorrhage
Epididymis		Aspermatogenesis
		Granuloma, Spermatic
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Spleen		Hypoplasia, Lymphoid
Testis		Spermatogenic Arrest
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

PRIMARY CAUSE OF DEATH

-



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_771

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Kidney		Nephropathy
Liver		Cirrhosis, Portal
	Bile Duct	Dilatation, Nos
Lung		Inflammation, Interstitial
Spleen		Hypoplasia, Nos
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Unspecified	Multiple Organs Nos	Amyloidosis

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_772

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Dilatation, Nos Hemorrhage
Intestine Large	Cortex Nos	Hyperplasia, Focal
Liver	Large Intestine, Colon	Inflammation, Acute Suppurative
	Centrilobular	Congestion, Passive
		Cyst, Nos
Lung	Alveoli	Necrosis, Focal
Lymph node	Mesenteric Lymph Node	Histiocytosis
Stomach	Cardiac Stomach	Hyperplasia, Nos
	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
		Ulcer, Focal
Thyroid		Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_773

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

---

**OBSERVATIONS**

Heart	Left Atrium Nos	Thrombus, Organized
Liver	Centrilobular	Congestion, Passive
	Bile Duct	Cyst, Multiple
		Inflammation, Focal
		Necrosis, Focal
Thymus		Involution, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:43  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_781

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Intestine Large  
Kidney  
Pancreas  
Salivary gland  
Thymus  
Unspecified

Cecum, Colon

Postmortem Change  
Nephropathy  
Lipoidosis  
Hyperplasia, Adenomatous  
Involution, Nos  
Amyloidosis

Multiple Organs Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:43

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_782

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Chronic Focal
Intestine Large	Colon	Hyperplasia, Papillary
Intestine Small	Ileum	Inflammation, Chronic
Kidney		Inflammation, Chronic
Testis		Degeneration, Nos
Unspecified	Multiple Organs Nos	Amyloidosis
Urinary bladder		Hyperplasia, Epithelial

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_783

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Epididymis		Aspermatogenesis
Intestine Small	Ileum	Postmortem Change
Pancreas	Acinus	Cyst, Nos
Pituitary gland		Cytoplasmic Vacuolization
Skin		Inflammation, Acute
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Lymphoma, Lymphocytic-Malignant Type

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_791

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Intestine Large  
Liver  
Spleen

Intestinal Tract

Postmortem Change  
Necrosis, Focal  
Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:44

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_792

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hemorrhage

Bone marrow

Cortex Nos

Hypoplasia, Nos

Epididymis

Aplasia, Hematopoietic

Heart

Aspermatogenesis

Intestine Large

Rectum

Cast, Nos

Kidney

Dilatation, Nos

Liver

Centrilobular

Hyperplasia, Polypoid

Stomach

Fundus

Nephropathy

Testis

Congestion, Passive

Urinary bladder

Cytoplasmic Vacuolization

Necrosis, Focal

Erosion

Spermatogenic Arrest

Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:44

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_793

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Blood vessel	Abdominal Aorta	Arteriosclerosis, Nos
Gall bladder		Postmortem Change
Intestine Large	Intestinal Tract	Postmortem Change
Kidney	Glomerulus	Amyloidosis
		Nephropathy
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Thymus		Involution, Nos
Thyroid	Follicle	Atrophy, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_801

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Gastrointestinal Tract	Postmortem Change
Kidney	Glomerulus	Amyloidosis
		Nephropathy
Liver	Centrilobular	Congestion, Passive
		Cyst, Multiple
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Unspecified	Multiple Organs Nos	Lymphoma, Lymphocytic-Malignant Type

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_802

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Abscess, Nos
		Aspermatogenesis
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
	Kupffer Cell	Pigmentation, Nos
Lymph node		Hyperplasia, Nos
Pancreas		Atrophy, Focal
		Dilatation, Ducts
Seminal vesicle		Inflammation, Acute Suppurative
Spleen		Hypoplasia, Nos
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_803

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Intestine Large  
Kidney  
Liver

Gastrointestinal Tract

Postmortem Change  
Nephropathy  
Cyst, Nos

Bile Duct

Dilatation, Nos

Pancreas  
Unspecified  
Urinary bladder

Abdominal Viscera

Lipoidosis  
Hernia, Nos  
Hyperplasia, Epithelial

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_811

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Intestine Large	Colon	Hyperplasia, Epithelial
	Colon	Inflammation, Chronic
	Intestinal Tract	Postmortem Change
Kidney	Glomerulus	Amyloidosis
		Nephropathy
Liver		Cyst, Nos
Pancreas		Lipoidosis
Stomach		Erosion

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_812

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland Epididymis	Cortex Nos	Hyperplasia, Focal Abscess, Nos Granuloma, Spermatic
Heart Intestine Large Kidney	Left Ventricle Nos Intestinal Tract Glomerulus	Thrombosis, Nos Postmortem Change Amyloidosis Nephropathy
Liver Pituitary gland Stomach Testis	Bile Duct  Fundus	Dilatation, Nos Cytoplasmic Vacuolization Erosion Hyperplasia, Interstitial Cell Spermatogenic Arrest

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_813

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Focal Necrosis, Focal
Epididymis		Aspermatogenesis Cast, Nos
Heart		Dilatation, Nos
Intestine Large	Anus Nos	Abscess, Nos
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive Necrosis, Focal
Lymph node	Cervical Lymph Node Nos	Congestion, Nos Hyperplasia, Nos
Pancreas		Dilatation, Ducts Hyperplasia, Nos
Pituitary gland	Islets	Cytoplasmic Vacuolization
Skin		Acariasis Inflammation, Chronic
Spleen		Hematopoiesis
Stomach	Cardiac Stomach Cardiac Stomach	Acanthosis Hyperkeratosis
Testis		Spermatogenic Arrest
Thymus		Involution, Nos
Trachea		Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_821

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis
	Cortex Nos	Hyperplasia, Focal
Intestine Large	Intestinal Tract	Inflammation, Acute Suppurative
Lung	Alveoli	Histiocytosis
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis
Spleen		Hematopoiesis

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C61234B

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Asbestos, chrysotile(IR)

**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 13:38:44

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_822

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla Zona Glomerulosa	Amyloidosis Hyperplasia, Focal Metaplasia, Nos Aspermatogenesis
Epididymis		Inflammation, Chronic Focal
Intestine Large	Serosa, Colon	Infarct, Nos
Kidney	Cortex	Congestion, Passive
Liver	Centrilobular	Cyst, Multiple Necrosis, Focal
Lung		Emphysema, Alveolar
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Pancreas		Lipoidosis
Spleen		Hematopoiesis Hyperplasia, Reticulum Cell
Stomach	Cardiac Stomach Cardiac Stomach	Acanthosis Hyperkeratosis
Testis		Inflammation, Chronic
Thymus		Involution, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_823

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis
Epididymis		Aspermatogenesis
Lung	Alveoli	Histiocytosis
Lymph node	Mesenteric Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis
Testis		Spermatogenic Arrest

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_831

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Intestine Large  
Kidney  
Lung  
Prostate  
Thymus  
Unspecified

Gastrointestinal Tract  
  
  
  
  
Multiple Organs Nos

Postmortem Change  
Nephropathy  
Inflammation, Interstitial  
Inflammation, Chronic  
Involution, Nos  
Amyloidosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_832

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
Epididymis		Aspermatogenesis
Intestine Large	Cecum, Colon	Ulcer, Nos
Intestine Small	Ileum	Inflammation, Chronic
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Pancreas		Lipoidosis
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis
	Multiple Organs Nos	Lymphoma, Lymphocytic-Malignant Type

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_833

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland  
Blood vessel  
Heart  
Intestine Large  
  
Kidney  
Seminal vesicle  
  
Spleen  
Unspecified

Colic Artery  
Left Atrium Nos  
Large Intestine, Colon  
Colon  
Large Intestine, Colon  
Gastrointestinal Tract  
  
  
  
  
  
Multiple Organs Nos

Cortical Adenoma  
Thrombosis, Nos  
Thrombus, Organized  
Inflammation, Acute  
Intussusception  
Necrosis, Nos  
Postmortem Change  
Nephropathy  
Inflammation, Chronic Focal  
Mineralization  
Hypoplasia, Nos  
Amyloidosis

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_841

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Heart	Left Atrium Nos	Thrombus, Organized
Intestine Large	Intestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
	Centrilobular	Congestion, Passive
Lung	Alveoli	Histiocytosis
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Nos
Pancreas		Lipoidosis
Thymus		Involution, Nos
Unspecified		Abscess, Nos
	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_842

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

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**OBSERVATIONS**

Adrenal gland		Pheochromocytoma
Heart	Atrium	Thrombus, Mural
Liver	Centrilobular	Congestion, Nos
	Centrilobular	Necrosis, Nos
Lung	Alveoli	Histiocytosis
		Inflammation, Chronic
Parathyroid gland		Hyperplasia, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_843

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Gall bladder		Edema, Nos
Heart	Myocardium Nos	Inflammation, Acute Focal
	Left Atrium Nos	Thrombus, Organized
Intestine Small	Ileum	Postmortem Change
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
Lung	Alveoli	Histiocytosis
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
		Degeneration, Hyaline
Thymus		Involution, Nos
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_851

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Epididymis		Aspermatogenesis
Kidney		Nephropathy
Liver	Centrilobular	Congestion, Passive
Lung	Alveoli	Histiocytosis
Prostate		Inflammation, Chronic
Seminal vesicle		Inflammation, Chronic
Spleen		Hypoplasia, Nos
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_852

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
		Retention Of Content
Intestine Large	Intestinal Tract	Inflammation, Acute Suppurative
	Gastrointestinal Tract	Postmortem Change
Kidney		Nephropathy
Liver		Cirrhosis, Portal
Lung		Inflammation, Interstitial
Lymph node		Hyperplasia, Nos
Pancreas		Lipoidosis
Prostate		Retention Of Content
Seminal vesicle		Retention Of Content
Spleen		Hypoplasia, Lymphoid
Testis		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_853

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Intestine Large	Cecum, Colon	Inflammation, Acute Suppurative
Kidney		Nephropathy
Liver	Centrilobular	Cirrhosis, Portal
		Congestion, Passive
		Cytoplasmic Vacuolization
		Necrosis, Focal
Lung	Alveoli	Histiocytosis
Pancreas	Islets	Islet-Cell Adenoma
		Lipoidosis
Pituitary gland		Cytoplasmic Vacuolization
Prostate		Inflammation, Acute Suppurative
Seminal vesicle		Inflammation, Acute
Skin	Circumanal Gland	Inflammation, Acute
Stomach		Inflammation, Acute Focal
Testis		Hyperplasia, Interstitial Cell
		Spermatogenic Arrest
Unspecified	Multiple Organs Nos	Amyloidosis

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_861

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Bone marrow		Aplasia, Hematopoietic
		Congestion, Nos
Intestine Large	Gastrointestinal Tract	Inflammation, Acute
Kidney		Nephropathy
Lung		Inflammation, Interstitial
Lymph node		Abscess, Nos
	Colo-Rectal Lymph Node	Hyperplasia, Nos
Pancreas		Lipoidosis
Prostate		Retention Of Content
Seminal vesicle		Retention Of Content
Stomach	Pylorus	Inflammation, Acute Hemorrhagic

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_862

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Epididymis		Aspermatogenesis
Heart	Myocardium Nos	Congestion, Nos
	Myocardium Nos	Inflammation, Chronic Focal
Intestine Large	Intestinal Tract	Postmortem Change
Intestine Small	Duodenum	Inflammation, Chronic
	Intestinal Villus, Ileum	Regeneration, Incomplete
Kidney		Congestion, Nos
Lung		Congestion, Nos
		Hemorrhage
Testis		Degeneration, Nos
Thyroid		Amyloidosis

**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C61234B  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Hamsters/Syrian Golden

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Asbestos, chrysotile(IR)  
**CAS Number:** 12001-29-5

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 13:38:44  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_863

**TRT#:** 2  
**DOSE:** 10000 PPM

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Amyloidosis
Bone marrow		Congestion, Nos
Epididymis		Aspermatogenesis
Intestine Large	Gastrointestinal Tract	Inflammation, Suppurative
	Gastrointestinal Tract	Postmortem Change
Intestine Small	Intestinal Villus, Ileum	Regeneration, Incomplete
Lymph node		Hyperplasia, Nos
Prostate		Retention Of Content
Seminal vesicle		Retention Of Content
Testis		Spermatogenic Arrest
Thymus		Involution, Nos

PRIMARY CAUSE OF DEATH

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**\*\* END OF REPORT \*\***