

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

C Number: C61234A

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Male

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_270

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
		Mineralization
Thyroid		C-Cell Adenoma
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_271

TRT#: 1
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Kidney

Cortex Nos

Metamorphosis, Fatty
Cast, Nos
Congestion, Nos

Lung

Congestion, Nos

Lymph node

Cervical Lymph Node Nos

Hemorrhage

Salivary gland

Cervical Lymph Node Nos

Congestion, Nos

Spleen

Hyperplasia, Lymphoid

Fibrosarcoma

Testis

Hemosiderosis

Hyperplasia, Stromal

Degeneration, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_272

TRT#: 1
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Blood vessel	Aorta Nos	Mineralization
Epididymis		Necrosis, Fat
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Capsule	Inflammation, Suppurative
Lung		Congestion, Nos
		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Congestion, Nos
Mammary gland		Hyperplasia, Nos
Pancreas		Atrophy, Nos
Parathyroid gland		Adenoma, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
		Mesothelioma, Nos
Spleen		Hemosiderosis
Stomach	Serosa	Inflammation, Suppurative
		Ulcer, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Mediastinum Nos	Inflammation, Acute

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_273

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Epididymis

Eye

Kidney

Liver

Pituitary gland

Testis

Thyroid

Unspecified

Retina

Multiple Organs Nos

Necrosis, Fat

Cataract

Degeneration, Nos

Cast, Nos

Hepatitis, Toxic

Adenoma, Nos

Interstitial-Cell Tumor

Follicular-Cell Carcinoma

Fibroma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_274

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Large Intestine, Colon	Parasitism
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mandibular Lymph Node	Lymphangiectasis
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Hyperplasia, C Cell
Unspecified		Fibroma
Zymbal gland		Carcinoma, Nos

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_275

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pigmentation, Nos
Eye	Retina	Cataract Degeneration, Nos Hemorrhage
Heart		Inflammation, Chronic
Kidney		Cast, Nos Inflammation, Chronic Pigmentation, Nos
Liver	Bile Duct	Cyst, Multilocular Hepatitis, Toxic
	Bile Duct	Hyperplasia, Nos Inflammation, Chronic
Lung		Lymphangiectasis
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Mammary gland		Atrophy, Nos
Pancreas		Hyperplasia, Epithelial
Seminal vesicle		Interstitial-Cell Tumor
Testis		
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_276

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Pituitary gland		Angiectasis
		Hyperplasia, Nos
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_277

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Cecum, Colon	Parasitism
Kidney		Inflammation, Chronic
Liver		Hepatocellular Carcinoma
Lung		Hyperplasia, Alveolar Epithelium
Lymph node	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell
Prostate		Inflammation, Chronic
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Flank	Fibroma
	Back	Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_278

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Eye

Cataract

Retina

Degeneration, Nos

Kidney

Cast, Nos

Inflammation, Chronic

Liver

Hepatitis, Toxic

Pituitary gland

Carcinoma, Nos

Prostate

Inflammation, Acute/Chronic

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Carcinoma

Unspecified

Multiple Organs Nos

Follicular-Cell Carcinoma
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_279

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma, Malignant
Blood vessel	Aorta Nos	Mineralization
Kidney		Glomerulosclerosis, Nos
		Inflammation, Acute Focal
Liver	Periportal	Fibrosis
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Chronic
		Pheochromocytoma, Metastatic
Pancreas		Atrophy, Nos
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_280

TRT#: 1
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Blood vessel	Aorta Nos	Mineralization
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Cecum, Colon	Inflammation, Acute
	Colon	Inflammation, Acute
	Colon	Ulcer, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Mammary gland		Hyperplasia, Nos
Prostate		Inflammation, Acute/Chronic
Skin		Papilloma, Nos
Stomach		Edema, Nos
		Inflammation, Acute
		Ulcer, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
Unspecified	Multiple Organs Nos	Leukemia, Monocytic
Urinary bladder		Hemorrhage
		Inflammation, Acute

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_281

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Kidney		Cast, Nos
	Cortex	Cyst, Nos
Liver		Angiectasis
		Focal Cellular Change
Lymph node	Cervical Lymph Node Nos	Hemorrhage
	Mandibular Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Lymphangiectasis
Mammary gland		Galactocele
Pituitary gland		Adenoma, Nos
Prostate		Abscess, Nos
Stomach		Acanthosis
		Hyperkeratosis
Testis		Ulcer, Nos
Thyroid		Interstitial-Cell Tumor
		C-Cell Adenoma
		Follicular-Cell Carcinoma
		Inflammation, Acute
Unspecified	Multiple Organs Nos	Fibrosis
	Multiple Organs Nos	Hyperplasia, Nos
	Multiple Organs Nos	Inflammation, Chronic
	Multiple Organs Nos	Pigmentation, Nos
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_282

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Angiectasis
		Focal Cellular Change
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Pancreas		Thrombus, Canalized
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_283

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Eye	Retina	Cataract
		Degeneration, Nos
		Hemorrhage
Intestine Large	Large Intestine, Colon	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Renal Lymph Node	Hemorrhage
	Iliac Lymph Node	Hyperplasia, Lymphoid
	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Pancreatic Lymph Node	Hyperplasia, Lymphoid
	Renal Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Adenoma, Nos
		Hyperplasia, Nos
Parathyroid gland		Hyperplasia, Nos
Spleen		Hemosiderosis
Stomach		Acanthosis
		Hyperkeratosis
		Hyperplasia, Basal Cell
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		C-Cell Carcinoma
		Cystic Follicles

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_284

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Esophagus		Hyperkeratosis
Eye	Retina	Degeneration, Nos
	Cornea	Inflammation, Acute Suppurative
		Inflammation, Acute Suppurative
Kidney		Cast, Nos
Liver	Periportal	Fibrosis
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Pancreas	Islets	Hyperplasia, Focal
Testis		Interstitial-Cell Tumor
Unspecified	Ear	Sarcoma, Nos
	Multiple Organs Nos	Sarcoma, Nos, Invasive

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_285

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Brain	Cerebrum	Astrocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Fibrosis
		Focal Cellular Change
		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Testis		Degeneration, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_286

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Kidney

Cast, Nos

Liver

Bile Duct

Fibrosis

Bile Duct

Hyperplasia, Nos

Lung

Inflammation, Chronic

Spleen

Hematopoiesis

Testis

Interstitial-Cell Tumor

Unspecified

Tunica Vaginalis

Mesothelioma, Malignant

Multiple Organs Nos

Mesothelioma, Invasive

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_287

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Metamorphosis, Fatty
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland		Carcinoma, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Hemosiderosis
Stomach		Acanthosis
		Hyperkeratosis
		Ulcer, Acute
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_288

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Focal Cellular Change
		Neoplastic Nodule
Lung		Inflammation, Chronic
Mammary gland		Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Back	Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_289

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Fibrosis

Kidney

Cast, Nos

Inflammation, Chronic

Lung

Inflammation, Chronic

Lymph node

Mandibular Lymph Node

Hyperplasia, Lymphoid

Preputial gland

Mandibular Lymph Node

Lymphangiectasis

Testis

Cystic Ducts

Unspecified

Interstitial-Cell Tumor

Cyst, Multilocular

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_290

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Epididymis		Necrosis, Fat
Liver	Periportal	Fibrosis
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Chronic
Salivary gland		Fibrosarcoma
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Fibrosarcoma, Invasive
Trachea		Fibrosarcoma, Invasive

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_291

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart		Adenocarcinoma, Nos, Metastatic
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Neoplastic Nodule
Lung		Inflammation, Chronic
Pancreas		Atrophy, Nos
	Islets	Islet-Cell Adenoma
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Back	Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_292

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Brain		Carcinoma, Nos, Invasive
Epididymis		Steatitis
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
	Tubule	Pigmentation, Nos
Mammary gland		Cystic Ducts
Pituitary gland		Carcinoma, Nos
Salivary gland		Fibrosarcoma
Stomach		Acanthosis
Testis		Degeneration, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Adipose Tissue	Inflammation, Chronic
	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_293

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
Liver		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Mammary gland		Fibroadenoma
Pancreas		Atrophy, Nos
Stomach		Edema, Nos
Testis		Inflammation, Acute
Thyroid		Interstitial-Cell Tumor
Unspecified		C-Cell Carcinoma
	Multiple Organs Nos	Basal-Cell Tumor
		Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_294

TRT#: 1
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney
Liver

Myocardium Nos
Cecum, Colon

Bile Duct

Testis
Unspecified

Multiple Organs Nos

Pheochromocytoma
Fibrosis
Parasitism
Cast, Nos
Cystic Ducts
Hyperplasia, Focal
Necrosis, Nos
Interstitial-Cell Tumor
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_295

TRT#: 1
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Blood vessel	Aorta Nos	Mineralization
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Mineralization
Liver		Angiectasis
	Periportal	Fibrosis
Lung		Inflammation, Chronic
Mammary gland		Hyperplasia, Nos
Parathyroid gland		Adenoma, Nos
Pituitary gland		Angiectasis
		Cyst, Nos
Skin	Ear	Papilloma, Nos
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_296

TRT#: 1
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney
Lung

Myocardium Nos

Pituitary gland
Testis

Pheochromocytoma
Fibrosis
Cast, Nos
Congestion, Nos
Inflammation, Chronic
Angiectasis
Degeneration, Nos
Interstitial-Cell Tumor
Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_297

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Lung

Inflammation, Chronic

Pancreas

Hyperplasia, Alveolar Epithelium

Parathyroid gland

Atrophy, Nos

Pituitary gland

Adenoma, Nos

Prostate

Adenoma, Nos

Spleen

Inflammation, Chronic

Testis

Hematopoiesis

Thyroid

Interstitial-Cell Tumor

Unspecified

Cystic Follicles

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_298

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Intestine Small	Mesentery Nos	Mesothelioma, Invasive
Kidney		Cast, Nos
Liver	Bile Duct	Cyst, Nos
		Focal Cellular Change
		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Peritoneum		Mesothelioma, Invasive
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Malignant
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_299

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye

Retina

Cataract

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Fibrosis

Liver

Cast, Nos

Lung

Inflammation, Chronic

Neoplastic Nodule

Lymph node

Mesenteric Lymph Node

Inflammation, Chronic

Pancreas

Pneumonia, Aspiration

Testis

Lymphangiectasis

Thyroid

Atrophy, Nos

Interstitial-Cell Tumor

Unspecified

Follicular-Cell Carcinoma

Hyperplasia, C Cell

Fibrosarcoma

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_300

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Metamorphosis, Fatty
Lung		Congestion, Nos
Testis		Interstitial-Cell Tumor
Unspecified		Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_301

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Liver

Periportal

Bile Duct

Lung

Pancreas

Testis

Pheochromocytoma

Cast, Nos

Fibrosis

Hyperplasia, Nos

Metamorphosis, Fatty

Congestion, Nos

Leukocytosis, Nos

Atrophy, Focal

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_302

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Inflammation, Chronic

Lymph node

Congestion, Nos

Salivary gland

Mesenteric Lymph Node

Lymphangiectasis

Testis

Fibrosarcoma, Invasive

Thyroid

Interstitial-Cell Tumor

Unspecified

C-Cell Carcinoma

Neck

Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_303

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney

Cortex Nos

Metamorphosis, Fatty
Cast, Nos
Inflammation, Chronic
Pigmentation, Nos

Liver

Periportal
Bile Duct

Fibrosis
Hyperplasia, Nos
Metamorphosis, Fatty

Lung
Pancreas
Pituitary gland
Seminal vesicle

Pleura Nos

Inflammation, Suppurative
Atrophy, Nos
Adenoma, Nos
Hyperplasia, Epithelial
Inflammation, Acute

Stomach

Testis

Unspecified

Mediastinum Nos

Inflammation, Chronic
Interstitial-Cell Tumor
Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_304

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
		Squamous Cell Carcinoma
Lymph node	Pancreatic Lymph Node	Hemosiderosis
	Pancreatic Lymph Node	Hyperplasia, Lymphoid
	Mediastinal Lymph Node	Hyperplasia, Reticulum Cell
Mammary gland		Hyperplasia, Nos
Parathyroid gland		C-Cell Carcinoma, Invasive
Preputial gland		Adenoma, Nos
Spleen		Fibrosis, Focal
		Hemosiderosis
Stomach		Inflammation, Acute
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_305

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Liver

Lung

Lymph node

Skin

Testis

Thyroid

Retina

Myocardium Nos

Bile Duct

Mediastinal Lymph Node

Mediastinal Lymph Node

Mediastinal Lymph Node

Pheochromocytoma

Cataract

Degeneration, Nos

Fibrosis

Cast, Nos

Inflammation, Chronic

Degeneration, Cystic

Hyperplasia, Nos

Inflammation, Chronic

Congestion, Nos

Lymphangiectasis

Pigmentation, Nos

Papilloma, Nos

Interstitial-Cell Tumor

Cystic Follicles

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_306

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Cortex Nos
Myocardium Nos

Metamorphosis, Fatty
Fibrosis
Cast, Nos
Inflammation, Chronic
Angiectasis
C-Cell Carcinoma, Metastatic
Hyperplasia, Lymphoid
Hyperplasia, Lymphoid
Lymphangiectasis
Hyperplasia, Epithelial
Adenoma, Nos
Interstitial-Cell Tumor
C-Cell Carcinoma

Liver
Lung
Lymph node

Mandibular Lymph Node
Mesenteric Lymph Node
Mesenteric Lymph Node

Mammary gland
Pituitary gland
Testis
Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_307

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Thrombosis, Nos

Kidney

Fibrosis

Cast, Nos

Lymph node

Mediastinal Lymph Node

Inflammation, Chronic

Skin

Pigmentation, Nos

Basal-Cell Carcinoma

Testis

Degeneration, Nos

Interstitial-Cell Tumor

Unspecified

Tunica Vaginalis

Mesothelioma, Nos

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_308

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Inflammation, Chronic

Periportal

Fibrosis

Bile Duct

Hyperplasia, Nos

Lymph node

Mandibular Lymph Node

Lymphangiectasis

Testis

Tubule

Degeneration, Nos

Thyroid

Interstitial-Cell Tumor

Unspecified

C-Cell Adenoma

Fibroma

Mouth

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_309

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland		Cortical Carcinoma
Bone	Sternum	Hematopoiesis
Epididymis		Steatitis
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Fibrosis
		Leukocytosis, Nos
		Metamorphosis, Fatty
Lung	Pleura Nos	Inflammation, Suppurative
		Leukocytosis, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mesenteric Lymph Node	Hyperplasia, Lymphoid
	Mesenteric Lymph Node	Inflammation, Suppurative
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Interstitial-Cell Tumor
Unspecified	Adipose Tissue	Congestion, Nos
		Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_310

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis

Kidney

Cast, Nos

Tubule

Hyperplasia, Epithelial

Liver

Hepatitis, Toxic

Lung

Inflammation, Chronic

Pituitary gland

Angiectasis

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_311

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Cortex Nos
Myocardium Nos

Metamorphosis, Fatty
Fibrosis
Cast, Nos
Inflammation, Chronic
Inflammation, Chronic
Lymphangiectasis
Atrophy, Nos
Hyperplasia, Nos
Adenoma, Nos
Inflammation, Acute/Chronic
Ulcer, Nos
Interstitial-Cell Tumor
Leukemia, Monocytic

Lung
Lymph node
Pancreas
Parathyroid gland
Pituitary gland
Stomach

Ileocolic Lymph Node

Testis
Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_312

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Large Intestine, Colon	Parasitism
Kidney		Cast, Nos
Liver	Periportal	Fibrosis
		Inflammation, Chronic
Lung		Metamorphosis, Fatty
Pituitary gland		Congestion, Nos
		Adenoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_313

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
Liver		Focal Cellular Change
		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Pituitary gland		Angiectasis
Testis		Interstitial-Cell Tumor
Unspecified	Groin	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_314

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Intestine Large	Ascending Colon, Colon	Hemangiosarcoma
	Ascending Colon, Colon	Inflammation, Acute/Chronic
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver	Periportal	Fibrosis
		Focal Cellular Change
Lymph node	Mesenteric Lymph Node	Hemorrhage
Pituitary gland		Angiectasis
Spleen		Atrophy, Nos
		Hemosiderosis
Stomach		Inflammation, Acute Focal
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_315

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
		Leukocytosis, Nos
		Metamorphosis, Fatty
Lung		Hyperplasia, Alveolar Epithelium
Mammary gland		Galactocele
Spleen		Atrophy, Nos
		Hemosiderosis
Stomach		Acanthosis
		Edema, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_316

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney		Inflammation, Chronic
Lung		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Lymphoma, Histiocytic-Malignant Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_318

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone	Rib	Osteosarcoma
Heart	Myocardium Nos	Fibrosis, Focal
Spleen		Atrophy, Nos
Testis	Tubule	Degeneration, Nos
Unspecified	Multiple Organs Nos	Osteosarcoma, Metastatic

PRIMARY CAUSE OF DEATH

-

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_319

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney		Cast, Nos Inflammation, Chronic
Liver	Periportal	Fibrosis Hepatitis, Toxic
Lymph node	Mesenteric Lymph Node	Hyperplasia, Lymphoid
Stomach	Submucosa	Acanthosis Edema, Nos Hyperkeratosis Inflammation, Acute
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
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		Pheochromocytoma
Blood vessel	Aorta Nos	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Fibrosis
		Hepatitis, Toxic
Lung		Congestion, Nos
Lymph node	Mediastinal Lymph Node	Congestion, Nos
	Mediastinal Lymph Node	Pigmentation, Nos
Mammary gland		Hyperplasia, Nos
Pancreas	Islets	Islet-Cell Adenoma
Stomach		Edema, Nos
		Hemorrhage
		Inflammation, Acute/Chronic
Testis		Ulcer, Nos
		Degeneration, Nos
		Interstitial-Cell Tumor
Thyroid		Mineralization
Unspecified	Multiple Organs Nos	C-Cell Carcinoma
		Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_322

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Cortex Nos
Myocardium Nos

Metamorphosis, Fatty
Fibrosis
Cast, Nos
Hyperplasia, Epithelial
Inflammation, Chronic
Angiectasis
Focal Cellular Change
Inflammation, Chronic
Inflammation, Interstitial
Islet-Cell Adenoma
Hyperplasia, Nos
Acanthosis
Inflammation, Acute/Chronic
Interstitial-Cell Tumor
C-Cell Carcinoma

Liver

Lung

Pancreas
Parathyroid gland
Stomach

Islets

Testis
Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_323

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Bone	Vertebra	Osteosarcoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Large Intestine, Colon	Inflammation, Acute/Chronic
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
	Capsule	Inflammation, Chronic Focal
Lung		Hyperplasia, Alveolar Epithelium
Lymph node	Iliac Lymph Node	Hyperplasia, Lymphoid
	Mesenteric Lymph Node	Hyperplasia, Lymphoid
	Iliac Lymph Node	Lymphangiectasis
	Mandibular Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Prostate		Inflammation, Acute/Chronic
Seminal vesicle		Hyperplasia, Epithelial
		Inflammation, Acute/Chronic
Skin		Keratoacanthoma
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_324

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Cortex Nos
Myocardium Nos

Metamorphosis, Fatty
Fibrosis
Cast, Nos
Inflammation, Chronic
Hepatitis, Toxic
Hyperplasia, Alveolar Epithelium
Inflammation, Chronic
Atrophy, Nos
Acanthosis
Hyperkeratosis
Interstitial-Cell Tumor
C-Cell Carcinoma
Leukemia, Monocytic

Liver
Lung

Pancreas
Stomach

Testis
Thyroid
Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_325

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lung

Lymph node

Pancreas

Testis

Thyroid

Zymbal gland

Myocardium Nos

Mandibular Lymph Node

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Focal Cellular Change

Inflammation, Chronic

Hyperplasia, Lymphoid

Acinar-Cell Carcinoma

Interstitial-Cell Tumor

C-Cell Adenoma

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_326

TRT#: 1
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
Lung		Inflammation, Chronic
		Inflammation, Interstitial
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Pancreas		Atrophy, Nos
Prostate		Inflammation, Acute/Chronic
Skin		Basal-Cell Carcinoma
Stomach		Mineralization
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_327

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Angiectasis
		Fibrosis
		Necrosis, Nos
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mesenteric Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Hyperplasia, Nos
Pancreas		Atrophy, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Stomach		Inflammation, Acute/Chronic
		Ulcer, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_328

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Aorta Nos	Mineralization
Eye		Cataract
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Inflammation, Suppurative
	Myocardium Nos	Mineralization
Intestine Large	Cecum, Colon	Inflammation, Acute
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
	Periportal	Degeneration, Cystic
		Fibrosis
		Focal Cellular Change
		Necrosis, Nos
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Mammary gland		Galactocele
Pancreas	Acinus	Hyperplasia, Focal
Parathyroid gland		Hyperplasia, Nos
Prostate		Abscess, Nos
		Hyperplasia, Epithelial
Stomach		Inflammation, Acute/Chronic
Testis		Inflammation, Chronic
Thyroid		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	C-Cell Adenoma
Urinary bladder		Leukemia, Mononuclear Cell
		Hemorrhage
		Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_329

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart
Intestine Large
Kidney

Myocardium Nos
Large Intestine, Colon

Fibrosis
Parasitism
Cast, Nos
Inflammation, Chronic
Inflammation, Chronic
Pigmentation, Nos
Hyperplasia, Reticulum Cell
Cyst, Nos
Interstitial-Cell Tumor
Hyperplasia, C Cell

Lung
Lymph node
Spleen
Stomach
Testis
Thyroid

Mediastinal Lymph Node

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_330

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Cortex Nos
Myocardium Nos

Metamorphosis, Fatty

Fibrosis

Cast, Nos

Cyst, Nos

Inflammation, Chronic

Lung
Lymph node
Pancreas
Parathyroid gland
Prostate
Spleen
Stomach

Cortex

Mandibular Lymph Node

Alveolar/Bronchiolar Carcinoma

Lymphangiectasis

Atrophy, Nos

Hyperplasia, Nos

Inflammation, Acute/Chronic

Fibrosis, Focal

Acanthosis

Hyperkeratosis

Inflammation, Acute/Chronic

Ulcer, Nos

Testis
Unspecified
Urinary bladder

Interstitial-Cell Tumor

Fibroma

Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_331

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Liver

Lung

Pituitary gland

Testis

Unspecified

Periportal

Multiple Organs Nos

Cast, Nos

Fibrosis

Congestion, Nos

Inflammation, Chronic

Angiectasis

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_332

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Epididymis
Intestine Small
Kidney

Liver
Pituitary gland
Preputial gland
Testis
Unspecified

Ileum, Ileum

Periportal

Multiple Organs Nos

Steatitis
Leiomyoma
Cast, Nos
Inflammation, Chronic
Fibrosis
Adenoma, Nos
Squamous Cell Carcinoma
Interstitial-Cell Tumor
Fibroma
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_333

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Hyperplasia, Tubular Cell
		Inflammation, Chronic
Liver		Inflammation, Chronic
		Necrosis, Focal
Lung		Inflammation, Chronic
Pancreas	Islets	Islet-Cell Carcinoma
Spleen		Angiectasis
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Axilla	Fibroma
Zymbal gland		Cystic Ducts

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_334

TRT#: 1
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Fibrosis
	Atrium	Thrombosis, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Congestion, Nos
	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Galactocele
Pancreas		Atrophy, Nos
Pituitary gland		Adenoma, Nos
Stomach		Inflammation, Acute/Chronic
		Ulcer, Nos
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma
	Mediastinum Nos	Inflammation, Suppurative
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_335

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Hemorrhage Pheochromocytoma Pigmentation, Nos Cataract
Eye	Retina	Degeneration, Nos Fibrosis
Heart		Inflammation, Chronic
Intestine Large	Large Intestine, Colon	Cast, Nos Inflammation, Chronic
Kidney		Angiectasis Bronchopneumonia, Acute
Liver		Hyperplasia, Nos Acinar-Cell Adenoma
Lung		Hyperplasia, Nos Inflammation, Acute
Mammary gland		Atrophy, Nos Hemosiderosis
Pancreas		Acanthosis Hyperkeratosis
Parathyroid gland		Inflammation, Acute/Chronic
Prostate		Ulcer, Acute
Spleen		Interstitial-Cell Tumor
Stomach		
Testis		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_336

TRT#: 1
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Congestion, Nos
		Fibrosis
	Bile Duct	Hepatitis, Toxic
		Hyperplasia, Nos
		Thrombosis, Nos
Lung		Inflammation, Chronic
		Inflammation, Interstitial
Lymph node	Pancreatic Lymph Node	Necrosis, Nos
Prostate		Hyperplasia, Focal
Stomach		Inflammation, Acute
		Ulcer, Acute
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_337

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney	
Lymph node	Mesenteric Lymph Node
Pancreas	
Testis	
Thyroid	
Unspecified	Multiple Organs Nos

Cast, Nos
Hyperplasia, Lymphoid
Atrophy, Focal
Degeneration, Nos
Interstitial-Cell Tumor
C-Cell Carcinoma
C-Cell Carcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_338

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_339

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Cortex Nos

Metamorphosis, Fatty

Lung

Hemorrhage

Lymph node

Mesenteric Lymph Node

Lymphangiectasis

Pancreas

Islets

Islet-Cell Adenoma

Testis

Interstitial-Cell Tumor

Thyroid

Cyst, Follicular Nos

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

Urinary bladder

Submucosa

Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_340

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Pheochromocytoma

Cast, Nos

Inflammation, Chronic

Pigmentation, Nos

Liver

Periportal

Fibrosis

Focal Cellular Change

Necrosis, Nos

Lung

Inflammation, Chronic

Leukocytosis, Nos

Preputial gland

Carcinoma, Nos

Spleen

Hematopoiesis

Testis

Interstitial-Cell Tumor

Unspecified

Inflammation, Acute/Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_341

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Aorta Nos	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Angiectasis
		Focal Cellular Change
	Bile Duct	Hyperplasia, Focal
		Hyperplasia, Nos
		Neoplastic Nodule
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Mammary gland		Hyperplasia, Nos
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Adipose Tissue	Fibrosis
	Multiple Organs Nos	Leukemia, Monocytic
		Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_342

TRT#: 1
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Kidney		Cast, Nos Inflammation, Chronic Pigmentation, Nos
Liver	Periportal	Fibrosis Hepatitis, Toxic Inflammation, Chronic Hyperplasia, Nos
Lung		Interstitial-Cell Tumor
Mammary gland		Mesothelioma, Nos
Testis	Tunica Vaginalis	C-Cell Carcinoma Cystic Follicles
Thyroid		Fibrosarcoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_343

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Cortical Carcinoma Pheochromocytoma
Epididymis		Steatitis
Eye		Cataract
Heart	Retina Myocardium Nos Myocardium Nos	Degeneration, Nos Degeneration, Nos Fibrosis
Kidney		Cast, Nos Inflammation, Chronic
Liver	Periportal Bile Duct	Fibrosis Focal Cellular Change Hyperplasia, Nos Neoplastic Nodule
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node Mediastinal Lymph Node	Hyperplasia, Lymphoid Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Prostate		Inflammation, Chronic
Skin	Ear	Papilloma, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos Mouth	Leukemia, Monocytic Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_344

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Liver		Congestion, Nos
Lung		Congestion, Nos
		Inflammation, Chronic
Spleen		Pigmentation, Nos
Stomach		Cyst, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_346

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Brain
Kidney

Cortex Nos

Metamorphosis, Fatty
Carcinoma, Nos, Invasive
Cast, Nos
Inflammation, Chronic

Liver
Mammary gland
Pituitary gland
Stomach

Bile Duct

Cyst, Nos
Galactocele
Carcinoma, Nos
Edema, Nos
Ulcer, Acute
Interstitial-Cell Tumor

Testis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_347

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Blood vessel	Aorta Nos	Mineralization
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Mineralization
Kidney		Cast, Nos
	Cortex	Cyst, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
	Periportal	Fibrosis
		Focal Cellular Change
Lung		Inflammation, Chronic
		Inflammation, Interstitial
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Seminal vesicle		Hyperplasia, Epithelial
Spleen		Atrophy, Nos
		Hemosiderosis
Stomach		Inflammation, Acute
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
Unspecified	Diaphragm Nos	Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_348

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Liver

Lung

Spleen

Testis

Thyroid

Unspecified

Multiple Organs Nos

Cast, Nos

Focal Cellular Change

Hepatitis, Toxic

Alveolar/Bronchiolar Carcinoma

Fibrosis

Interstitial-Cell Tumor

Mineralization

Hyperplasia, C Cell

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_349

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Degeneration, Cystic
	Periportal	Fibrosis
Pancreas		Atrophy, Nos
Parathyroid gland		Hyperplasia, Nos
Spleen		Inflammation, Chronic
Testis	Capsule	Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Hyperplasia, C Cell
Unspecified		Fibroma
Zymbal gland		Cystic Ducts

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_350

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Epididymis

Heart

Kidney

Liver

Spleen

Testis

Unspecified

Myocardium Nos

Bile Duct

Fibrosis

Fibrosis

Cast, Nos

Inflammation, Chronic

Hyperplasia, Nos

Congestion, Nos

Hematopoiesis

Interstitial-Cell Tumor

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_351

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Fibrosis

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_352

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
	Periportal	Fibrosis
		Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hemorrhage
Mammary gland		Hyperplasia, Nos
Pancreas		Atrophy, Nos
	Islets	Islet-Cell Carcinoma
Pituitary gland		Angiectasis
Prostate	Coagulating Gland	Hyperplasia, Epithelial
	Coagulating Gland	Inflammation, Acute/Chronic
		Inflammation, Acute/Chronic
Seminal vesicle		Hyperplasia, Epithelial
		Inflammation, Acute/Chronic
Spleen		Hemosiderosis
Stomach		Inflammation, Acute Focal
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
Urinary bladder		Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_353

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Medulla
Myocardium Nos

Hyperplasia, Focal
Fibrosis
Cast, Nos
Inflammation, Acute

Pituitary gland
Skin
Spleen
Testis
Unspecified

Eyelid Nos

Adenoma, Nos
Papilloma, Nos
Atrophy, Nos
Interstitial-Cell Tumor
Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_354

TRT#: 1
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Blood vessel	Aorta Nos	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
	Periportal	Fibrosis
	Bile Duct	Hyperplasia, Nos
Lung		Congestion, Nos
Lymph node	Mesenteric Lymph Node	Erythrophagocytosis
Parathyroid gland		Hyperplasia, Nos
Prostate	Coagulating Gland	Hyperplasia, Epithelial
	Coagulating Gland	Inflammation, Chronic
		Inflammation, Chronic
Spleen		Atrophy, Nos
		Hemosiderosis
Testis		Interstitial-Cell Tumor
Urinary bladder		Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_355

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
		Hepatitis, Toxic
		Neoplastic Nodule
Lung		Hemorrhage
		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Angiectasis
	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Pancreatic Lymph Node	Hyperplasia, Lymphoid
	Mandibular Lymph Node	Lymphangiectasis
Pancreas	Islets	Islet-Cell Carcinoma
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_356

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Myocardium Nos

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Liver

Periportal

Fibrosis

Hepatitis, Toxic

Lung

Lymph node

Pituitary gland

Preputial gland

Testis

Thyroid

Unspecified

Mandibular Lymph Node

Congestion, Nos

Hyperplasia, Lymphoid

Adenoma, Nos

Carcinoma, Nos

Interstitial-Cell Tumor

C-Cell Carcinoma

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_357

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Pancreas		Atrophy, Nos
Parathyroid gland		Hyperplasia, Nos
Skin		Cyst, Epidermal Inclusion
Stomach		Inflammation, Acute/Chronic
		Ulcer, Acute
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_446

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Metamorphosis, Fatty
Lung		C-Cell Carcinoma, Metastatic
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Pituitary gland		Carcinoma, Nos
Salivary gland		Inflammation, Chronic
Spleen		Hemosiderosis
Stomach		Acanthosis
		Inflammation, Acute/Chronic
		Ulcer, Perforated
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Zymbal gland		Abscess, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_447

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
		Neoplastic Nodule
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Preputial gland		Carcinoma, Nos
Spleen		Fibrosis
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_448

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye	Retina	Cataract Degeneration, Nos Inflammation, Chronic
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos Inflammation, Chronic
Liver		Degeneration, Cystic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Skin	Mouth	Squamous Cell Papilloma
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Unspecified	Back	Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_449

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Eye

Cortex Nos

Metamorphosis, Fatty
Cataract

Heart
Intestine Large
Kidney

Retina
Myocardium Nos
Descending, Colon

Degeneration, Nos
Fibrosis
Adenomatous Polyp, Nos
Cast, Nos
Inflammation, Chronic
Hepatocellular Carcinoma
Inflammation, Chronic
Cyst, Nos
Degeneration, Nos
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_450

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Liver		Angiectasis
Lung		Metamorphosis, Fatty Congestion, Nos Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hemorrhage
Spleen		Hemosiderosis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_451

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mediastinal Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Skin	Back	Trichoepithelioma
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Malignant
Unspecified	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_452

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Liver

Lung

Testis

Retina

Myocardium Nos

Pheochromocytoma

Cataract

Degeneration, Nos

Fibrosis

Cast, Nos

Inflammation, Chronic

Focal Cellular Change

Inflammation, Chronic

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_453

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Bone	Skull	Hyperostosis
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver	Periportal	Fibrosis
		Focal Cellular Change
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
Parathyroid gland		Hyperplasia, Nos
Prostate		Inflammation, Granulomatous
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_454

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney
Liver
Stomach
Testis

Cortex Nos
Epicardium
Cecum, Colon

Metamorphosis, Fatty
Inflammation, Fibrinous
Mucinous Cystadenocarcinoma
Congestion, Nos
Metamorphosis, Fatty
Acanthosis
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Mucinous Cystadenocarcinoma, Metastatic

Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_455

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Cecum, Colon	Mucinous Cystadenocarcinoma
Lung		Congestion, Nos
Unspecified	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_456

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Liver		Degeneration, Cystic
		Neoplastic Nodule
Lung		Inflammation, Suppurative
Mammary gland		Fibroadenoma
Skin	Back	Trichoepithelioma
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
		Follicular-Cell Carcinoma
Unspecified	Mediastinum Nos	Inflammation, Suppurative
	Neck	Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_457

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
		Hepatocellular Carcinoma
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
		Cyst, Nos
Prostate		Inflammation, Acute/Chronic
Skin	Tail	Hyperkeratosis
	Tail	Inflammation, Acute
	Ear	Squamous Cell Papilloma
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_458

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Focal Cellular Change
Lymph node	Pancreatic Lymph Node	Hyperplasia, Lymphoid
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Pancreatic Lymph Node	Pigmentation, Nos
Pancreas		Acinar-Cell Adenoma
Preputial gland		Cystic Ducts
Skin	Axilla	Trichoepithelioma
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_459

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos
	Transverse Colon, Colon	Parasitism
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver	Periportal	Fibrosis
		Focal Cellular Change
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos
Pancreas		Acinar-Cell Adenoma
		Atrophy, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_460

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
		Pigmentation, Nos
Pancreas		Atrophy, Nos
	Islets	Islet-Cell Carcinoma
Parathyroid gland		Hyperplasia, Nos
Skin	Foot And Toe Nos	Inflammation, Acute/Chronic
Stomach		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_461

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Intestine Large
Liver
Lung
Spinal cord
Testis
Thyroid

Descending, Colon

Adenomatous Polyp, Nos
Metamorphosis, Fatty
Inflammation, Chronic
Neurilemoma, Malignant
Interstitial-Cell Tumor
C-Cell Carcinoma
Cystic Follicles
Squamous Cell Papilloma

Zymbal gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_462

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Ear		Fibrosarcoma
Heart	Myocardium Nos	Fibrosis
Intestine Large	Ascending Colon, Colon	Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
		Neoplastic Nodule
Lung		Fibrosarcoma, Metastatic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_463

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_464

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Eye	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney	Left Kidney	Cast, Nos
	Left Kidney	Inflammation, Chronic
	Right Kidney	Mixed Tumor, Malignant
Liver	Periportal	Fibrosis
		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Salivary gland	Salivary Serous Gland	Atrophy, Nos
Skin		Acanthosis
Stomach		Acanthosis
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Ureter	Right Ureter	Mixed Tumor, Malignant
Zymbal gland		Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_465

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Fibrosis
		Focal Cellular Change
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
Mammary gland		Hyperplasia, Nos
Parathyroid gland		Hyperplasia, Nos
Prostate		Inflammation, Acute/Chronic
Skin	Tail	Keratoacanthoma
Stomach	Submucosa	Edema, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_466

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Fibrosis
		Focal Cellular Change
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mesenteric Lymph Node	Hyperplasia, Plasma Cell
Nasal cavity		Adenoma, Nos
Preputial gland		Cystic Ducts
Prostate		Adenoma, Nos
		Inflammation, Acute/Chronic
Skin	Back	Keratoacanthoma
Stomach		Acanthosis
		Hyperkeratosis
		Ulcer, Acute
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_467

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Degeneration, Cystic
		Focal Cellular Change
Lung		Inflammation, Chronic
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_468

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Intestine Large
Kidney
Stomach

Cecum, Colon

Adenocarcinoma, Nos
Cast, Nos
Acanthosis
Inflammation, Acute
Interstitial-Cell Tumor
Adenocarcinoma, Nos, Metastatic

Testis
Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_469

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
Liver		Focal Cellular Change
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Lymphangiectasis
Prostate		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_470

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Liver

Lung

Lymph node

Preputial gland

Testis

Thyroid

Mediastinal Lymph Node

Mesenteric Lymph Node

Mediastinal Lymph Node

Mesenteric Lymph Node

Pheochromocytoma

Cast, Nos

Inflammation, Chronic

Degeneration, Cystic

Inflammation, Chronic

Hemorrhage

Lymphangiectasis

Pigmentation, Nos

Pigmentation, Nos

Carcinoma, Nos

Interstitial-Cell Tumor

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_471

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Cast, Nos
Liver		Hepatitis, Toxic
Lung		Inflammation, Chronic
Prostate		Edema, Interstitial
Stomach		Necrosis, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic
Urinary bladder		Hemorrhage
		Inflammation, Acute Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_472

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney
Lung
Testis
Unspecified

Cortex Nos
Myocardium Nos
Colon

Multiple Organs Nos

Metamorphosis, Fatty
Inflammation, Chronic
Parasitism
Cast, Nos
Inflammation, Chronic
Interstitial-Cell Tumor
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_473

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Ascending Colon, Colon

Hyperplasia, Epithelial

Kidney

Ascending Colon, Colon

Inflammation, Chronic Focal

Liver

Cast, Nos

Inflammation, Chronic

Degeneration, Cystic

Focal Cellular Change

Hepatitis, Toxic

Hyperplasia, Focal

Lung

Inflammation, Chronic

Prostate

Inflammation, Acute/Chronic

Testis

Scrotum Nos

Fibroma

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

Unspecified

Back

Fibroma

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_474

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Inflammation, Chronic

Lung

Degeneration, Cystic

Hyperplasia, Alveolar Epithelium

Pancreas

Inflammation, Chronic

Salivary gland

Atrophy, Nos

Testis

Sarcoma, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_475

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatocellular Carcinoma
Lung		Inflammation, Chronic
		Inflammation, Interstitial
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Pigmentation, Nos
Mammary gland		Hemorrhage
		Inflammation, Chronic
Salivary gland	Parotid Gland Nos	Sarcoma, Nos
Testis		Interstitial-Cell Tumor
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_476

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Degeneration, Cystic
	Bile Duct	Hyperplasia, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas	Islets	Islet-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_477

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mesenteric Lymph Node	Hyperplasia, Lymphoid
	Mediastinal Lymph Node	Hyperplasia, Reticulum Cell
	Mediastinal Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Foot	Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_478

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos
Inflammation, Chronic
Pigmentation, Nos

Lung

Inflammation, Chronic

Lymph node

Cervical Lymph Node Nos

Hyperplasia, Lymphoid

Mesenteric Lymph Node

Hyperplasia, Lymphoid

Mediastinal Lymph Node

Pigmentation, Nos

Mesenteric Lymph Node

Pigmentation, Nos

Salivary gland

Sarcoma, Nos

Testis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_479

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
		Neoplastic Nodule
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Pigmentation, Nos
Mammary gland		Hyperplasia, Nos
Pancreas		Atrophy, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_480

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart		Inflammation, Chronic
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
	Colon	Parasitism
Lung		Congestion, Nos
		Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_481

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Intestine Large
Kidney

Descending, Colon

Adenomatous Polyp, Nos
Cast, Nos

Liver

Lung

Lymph node

Mandibular Lymph Node

Mandibular Lymph Node

Inflammation, Chronic
Focal Cellular Change
Inflammation, Chronic

Preputial gland

Skin

Testis

Unspecified

Back

Adipose Tissue

Congestion, Nos
Hyperplasia, Lymphoid
Carcinoma, Nos
Cyst, Epidermal Inclusion
Interstitial-Cell Tumor
Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_482

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Blood vessel	Bronchial Artery	Inflammation, Chronic
Kidney		Cast, Nos
Lung		Inflammation, Chronic
Spleen		Hemosiderosis
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Head	Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_483

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Liver		Hepatitis, Toxic
Lung		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_484

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Degeneration, Cystic
Lung		Inflammation, Chronic
Mammary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_485

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Hepatitis, Toxic
		Hyperplasia, Focal
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Lymphangiectasis
Pituitary gland		Adenoma, Nos
Stomach		Acanthosis
		Inflammation, Acute
Testis		Ulcer, Nos
		Hyperplasia, Interstitial Cell
Thyroid		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	C-Cell Carcinoma
		Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_486

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart

Cortex Nos
Myocardium Nos
Cardiac Valve

Kidney
Liver

Lung
Prostate
Stomach

Testis
Unspecified

Multiple Organs Nos

Metamorphosis, Fatty
Fibrosis
Inflammation, Chronic
Pigmentation, Nos
Degeneration, Cystic
Hepatitis, Toxic
Inflammation, Chronic
Inflammation, Acute
Acanthosis
Inflammation, Acute
Ulcer, Nos
Interstitial-Cell Tumor
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_487

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye

Lung

Lymph node

Cervical Lymph Node Nos

Mesenteric Lymph Node

Cataract

Congestion, Nos

Congestion, Nos

Hyperplasia, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_488

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
		Hepatocellular Carcinoma
Lymph node	Axillary Lymph Node	Lymphangiectasis
	Mandibular Lymph Node	Lymphangiectasis
Nasal cavity	Turbinate Nos	Adenoma, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Skin	Chest	Squamous Cell Carcinoma
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_489

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos Inflammation, Chronic
Liver		Degeneration, Cystic
Lymph node	Cervical Lymph Node Nos Mandibular Lymph Node	Hyperplasia, Plasma Cell Hyperplasia, Plasma Cell
Pancreas	Islets	Acinar-Cell Adenoma Islet-Cell Carcinoma
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Axilla	Fibroma
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_490

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Suppurative
Intestine Large	Cecum, Colon	Mucinous Cystadenocarcinoma
	Ascending Colon, Colon	Mucinous Cystadenocarcinoma, Metastatic
Lung		Congestion, Nos
Lymph node	Ileocolic Lymph Node	Mucinous Cystadenocarcinoma, Metastatic
Pancreas		Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_491

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland

Epididymis

Kidney

Liver

Lymph node

Spleen

Stomach

Testis

Zymbal gland

Cortex Nos

Periportal

Mesenteric Lymph Node

Metamorphosis, Fatty

Granuloma, Spermatic

Cast, Nos

Congestion, Nos

Fibrosis

Leukocytosis, Nos

Lymphangiectasis

Hematopoiesis

Acanthosis

Hyperkeratosis

Inflammation, Acute

Interstitial-Cell Tumor

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_492

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Kidney

Cortex Nos
Anus Nos

Liver

Metamorphosis, Fatty
Adenomatous Polyp, Nos
Cast, Nos
Pigmentation, Nos
Focal Cellular Change
Hepatocellular Carcinoma

Lymph node

Ileocolic Lymph Node
Mandibular Lymph Node

Lymphangiectasis
Lymphangiectasis
Interstitial-Cell Tumor
Hyperplasia, C Cell
Inflammation, Chronic

Testis
Thyroid
Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_493

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Lymphoma, Histiocytic-Malignant Type
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Malignant
	Scrotum Nos	Mesothelioma, Metastatic
Thyroid		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_494

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Intestine Small	Mucosa	Hyperplasia, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Lymphangiectasis
		Lymphangiectasis
Pancreas	Islets	Islet-Cell Carcinoma
Preputial gland		Squamous Cell Carcinoma
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic
	Axilla	Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_495

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal Metamorphosis, Fatty
Intestine Large	Colon	Parasitism
Kidney		Cast, Nos Inflammation, Chronic
Liver	Bile Duct	Angiectasis Hyperplasia, Nos Hyperplasia, Nos
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_496

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Hepatitis, Toxic
		Hepatocellular Carcinoma
		Neoplastic Nodule
Lung		Inflammation, Chronic
Seminal vesicle		Hyperplasia, Focal
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_497

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Ascending Colon, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Pigmentation, Nos
Liver		Angiectasis
		Degeneration, Cystic
		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Sarcoma, Nos
Salivary gland		Sarcoma, Nos
Skin		Cyst, Epidermal Inclusion
Spleen		Necrosis, Nos
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma
	Diaphragm Nos	Hernia, Nos
	Multiple Organs Nos	Inflammation, Chronic
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_498

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Kidney		Cast, Nos Inflammation, Chronic
Liver		Angiectasis Focal Cellular Change Hepatocellular Carcinoma
Lymph node	Cervical Lymph Node Nos Mandibular Lymph Node	Hyperplasia, Plasma Cell Hyperplasia, Plasma Cell
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Skin	Back	Keratoacanthoma
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_499

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Kidney		Cast, Nos Inflammation, Chronic Pigmentation, Nos
Liver	Periportal	Fibrosis
Lung	Bile Duct	Hyperplasia, Nos Hyperplasia, Alveolar Epithelium Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell
Pituitary gland	Mesenteric Lymph Node	Pigmentation, Nos
Prostate	Mandibular Lymph Node	Squamous Cell Carcinoma, Metastatic
Skin	Face	Angiectasis
Spleen		Inflammation, Acute/Chronic
Testis		Squamous Cell Carcinoma
Thyroid		Hematopoiesis Interstitial-Cell Tumor C-Cell Adenoma C-Cell Carcinoma Hyperplasia, Follicular Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_500

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney

Cortex Nos
Myocardium Nos
Ascending Colon, Colon

Metamorphosis, Fatty
Fibrosis
Adenomatous Polyp, Nos
Cast, Nos
Inflammation, Chronic
Pigmentation, Nos
Metamorphosis, Fatty
Galactocele
Atrophy, Nos
Hyperplasia, Nos
Adenoma, Nos
Degeneration, Nos
Leukemia, Monocytic
Inflammation, Acute

Liver
Mammary gland
Pancreas
Parathyroid gland
Pituitary gland
Testis
Unspecified
Urinary bladder

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_501

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hypertrophy, Focal
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Bile Duct	Cystic Ducts
		Degeneration, Cystic
	Periportal	Fibrosis
		Focal Cellular Change
Lung		Osteosarcoma, Metastatic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Salivary gland		Sarcoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_502

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hemangiosarcoma
		Hepatocellular Carcinoma
		Necrosis, Nos
Lung		Inflammation, Chronic
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Malignant
Thyroid		Follicular-Cell Adenoma
Unspecified	Back	Fibroma
	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_503

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Small

Mesentery Nos

Inflammation, Chronic

Lung

Inflammation, Chronic

Lymph node

Mandibular Lymph Node

Hyperplasia, Lymphoid

Testis

Hyperplasia, Interstitial Cell

Zymbal gland

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_504

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Kidney		Inflammation, Chronic Tubular-Cell Adenocarcinoma
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node Mesenteric Lymph Node	Hyperplasia, Reticulum Cell Pigmentation, Nos
Prostate		Inflammation, Chronic
Testis		Interstitial-Cell Tumor, Malignant
Unspecified	Back	Fibroma
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_505

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Kidney

Descending, Colon

Parasitism

Liver

Cast, Nos

Lung

Focal Cellular Change

Lymph node

Inflammation, Chronic

Cervical Lymph Node Nos

Hyperplasia, Lymphoid

Mandibular Lymph Node

Hyperplasia, Lymphoid

Mesenteric Lymph Node

Hyperplasia, Lymphoid

Preputial gland

Carcinoma, Nos

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_506

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Intestine Large
Kidney

Descending, Colon

Adenomatous Polyp, Nos
Cast, Nos

Liver
Lung
Lymph node
Testis
Thyroid

Ileocolic Lymph Node

Inflammation, Chronic
Inflammation, Chronic
Inflammation, Chronic
Lymphangiectasis
Interstitial-Cell Tumor
C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_507

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Intestine Large	Cecum, Colon	Mucinous Cystadenocarcinoma
Unspecified	Multiple Organs Nos	Mucinous Cystadenocarcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_508

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Ascending Colon, Colon	Signet Ring Carcinoma
Liver		Metamorphosis, Fatty
Lung		Alveolar/Bronchiolar Adenoma
		Inflammation, Chronic
Lymph node	Ileocolic Lymph Node	Signet Ring Carcinoma, Metastatic
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_509

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Kidney		Cast, Nos Inflammation, Chronic
Liver	Periportal	Fibrosis
Lung		Congestion, Nos Inflammation, Chronic
Lymph node	Mesenteric Lymph Node Mesenteric Lymph Node	Hyperplasia, Lymphoid Pigmentation, Nos
Pituitary gland		Carcinoma, Nos
Skin	Back	Keratoacanthoma
Spleen		Hemosiderosis
Testis		Degeneration, Nos Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_510

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Intestine Large
Kidney
Liver
Lung
Testis
Thyroid
Unspecified

Colon

Parasitism
Cast, Nos
Focal Cellular Change
Inflammation, Chronic
Interstitial-Cell Tumor
C-Cell Adenoma
Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_511

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Intestine Large
Kidney

Ascending Colon, Colon

Inflammation, Chronic
Cast, Nos

Liver

Inflammation, Chronic
Degeneration, Cystic
Focal Cellular Change

Lung
Lymph node
Testis

Mesenteric Lymph Node

Inflammation, Chronic
Pigmentation, Nos
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_512

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Liver		Degeneration, Cystic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pancreas	Duct Nos	Adenocarcinoma, Nos
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Adenocarcinoma, Nos, Invasive

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_513

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Lung
Lymph node
Testis
Thyroid

Cortex Nos
Myocardium Nos
Descending, Colon

Mesenteric Lymph Node

Metamorphosis, Fatty
Fibrosis
Adenomatous Polyp, Nos
Inflammation, Chronic
Hyperplasia, Lymphoid
Interstitial-Cell Tumor
Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_514

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Brain	Cerebrum	Carcinoma, Nos, Invasive
Heart	Myocardium Nos	Fibrosis
Intestine Small	Mesentery Nos	Inflammation, Chronic
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Angiectasis
		Hepatitis, Toxic
Lung		Inflammation, Chronic
Pituitary gland		Carcinoma, Nos
Stomach		Acanthosis
		Inflammation, Acute/Chronic
		Ulcer, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_515

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Intestine Large
Kidney
Liver

Ascending Colon, Colon

Mucinous Cystadenocarcinoma
Cast, Nos
Degeneration, Cystic
Focal Cellular Change
Hepatocellular Carcinoma
Hyperplasia, Focal
Necrosis, Nos
Interstitial-Cell Tumor
Inflammation, Chronic
Leukemia, Monocytic

Spleen
Testis
Unspecified

Multiple Organs Nos
Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_516

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Epididymis	
Intestine Large	Descending, Colon
Kidney	
Liver	
Lung	
Lymph node	Mandibular Lymph Node
Testis	
Thyroid	

Steatitis
Adenomatous Polyp, Nos
Cast, Nos
Focal Cellular Change
Inflammation, Chronic
Hyperplasia, Lymphoid
Interstitial-Cell Tumor
Cystic Follicles

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_517

TRT#: 2

DOSE: 0

SEX: Male

DISP: Natural Death

DAY ON TEST:

HISTO:

OBSERVATIONS

Lung

Congestion, Nos

Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_518

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Blood vessel	Coronary Artery Nos	Mineralization
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Mineralization
Intestine Small	Mesentery Nos	Sarcoma, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Degeneration, Cystic
	Periportal	Fibrosis
Lung		Inflammation, Chronic
Pancreas		Atrophy, Nos
Parathyroid gland		Adenoma, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Chronic
Stomach		Degeneration, Nos
		Mineralization
Testis		Interstitial-Cell Tumor
Unspecified	Flank	Lipoma
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_519

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Kidney		Cast, Nos Inflammation, Chronic
Liver		Degeneration, Cystic Degeneration, Nos Focal Cellular Change Hepatitis, Toxic Hyperplasia, Focal
Lymph node	Mandibular Lymph Node Mesenteric Lymph Node Mesenteric Lymph Node	Hyperplasia, Lymphoid Hyperplasia, Reticulum Cell Pigmentation, Nos Inflammation, Acute/Chronic
Prostate		Sarcoma, Nos
Salivary gland		Interstitial-Cell Tumor
Testis		C-Cell Carcinoma
Thyroid		Inflammation, Suppurative
Unspecified	Ear Multiple Organs Nos	Leukemia, Monocytic
Zymbal gland		Hyperkeratosis Inflammation, Acute/Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_520

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
		Hepatocellular Carcinoma
Lung		Inflammation, Chronic
		Thrombus, Fibrin
Prostate		Abscess, Nos
		Inflammation, Suppurative
Seminal vesicle		Hyperplasia, Nos
		Inflammation, Suppurative
Testis		Interstitial-Cell Tumor
Unspecified	Chest	Sarcoma, Nos
Urinary bladder		Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_521

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Mammary gland		Galactocele
Parathyroid gland		Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_522

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
	Myocardium Nos	Mineralization
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Mineralization
Lymph node	Mediastinal Lymph Node	Hemorrhage
Spleen		Atrophy, Nos
Stomach		Acanthosis
		Hyperkeratosis
Testis		Interstitial-Cell Tumor
Urinary bladder		Transitional-Cell Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_523

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Cervical Lymph Node Nos	Lymphangiectasis
	Mandibular Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Pigmentation, Nos
Testis		Interstitial-Cell Tumor
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_524

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
Lung		Adenocarcinoma, Nos, Metastatic
Mammary gland		Adenocarcinoma, Nos
Spleen		Fibrosis
Stomach	Submucosa	Acanthosis
		Edema, Nos
		Inflammation, Chronic
Testis		Ulcer, Acute
Thyroid		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Hyperplasia, C Cell
		Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_525

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Focal Cellular Change
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mesenteric Lymph Node	Pigmentation, Nos
Mammary gland		Adenoma, Nos
Parathyroid gland		Hyperplasia, Nos
Preputial gland		Cystic Ducts
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_526

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Hepatitis, Toxic
Lung		Inflammation, Chronic
Pancreas		Acinar-Cell Adenoma
	Islets	Islet-Cell Carcinoma
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_527

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Metamorphosis, Fatty
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mesenteric Lymph Node	Pigmentation, Nos
Spleen		Hemosiderosis
Stomach		Inflammation, Acute
		Ulcer, Nos
Testis		Interstitial-Cell Tumor
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_528

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
Liver		Necrosis, Nos
Lung		Hemorrhage
Lymph node	Mediastinal Lymph Node	Hemorrhage
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Lymphoma, Histiocytic-Malignant Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_529

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
Liver		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Stomach		Acanthosis
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_530

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mesenteric Lymph Node	Hyperplasia, Lymphoid
	Mandibular Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_531

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Intestine Large
Kidney

Descending, Colon

Adenomatous Polyp, Nos
Cast, Nos

Liver

Inflammation, Chronic
Focal Cellular Change

Lymph node
Testis

Mesenteric Lymph Node

Inflammation, Chronic
Pigmentation, Nos

Zymbal gland

Degeneration, Nos
Granuloma, Spermatic
Interstitial-Cell Tumor
Abscess, Chronic
Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_532

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Ear		Hyperplasia, Epithelial
Heart	Myocardium Nos	Fibrosis
Liver		Focal Cellular Change
Lung		Leukocytosis, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Inflammation, Suppurative
Zymbal gland		Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_533

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney
Liver
Lung
Lymph node
Testis

Cortex Nos
Myocardium Nos
Descending, Colon

Mesenteric Lymph Node

Metamorphosis, Fatty
Fibrosis
Adenomatous Polyp, Nos
Cast, Nos
Metamorphosis, Fatty
Inflammation, Chronic
Hyperplasia, Lymphoid
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_534

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Lung

Thyroid

Unspecified

Flank

Cast, Nos

Inflammation, Chronic

Inflammation, Interstitial

Hyperplasia, C Cell

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_535

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Neoplastic Nodule
Lung		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_536

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Hepatitis, Toxic
Lung		Inflammation, Chronic
Pituitary gland		Angiectasis
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_537

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Degeneration, Cystic
Lung		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Malignant
Thyroid		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_538

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Kidney		Cast, Nos Inflammation, Chronic
Liver	Periportal	Fibrosis Inflammation, Chronic
Lung		Interstitial-Cell Tumor
Testis		Hyperplasia, C Cell
Thyroid		Leukemia, Monocytic
Unspecified	Multiple Organs Nos	Squamous Cell Carcinoma
Zymbal gland		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_539

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Kidney		Pigmentation, Nos
Liver		Hepatocellular Carcinoma
		Hyperplasia, Nos
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Lymphangiectasis
	Mandibular Lymph Node	Pigmentation, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_540

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Angiectasis
		Degeneration, Cystic
		Hepatocellular Carcinoma
		Hyperplasia, Nos
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos
	Pancreatic Lymph Node	Pigmentation, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Back	Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_541

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Kidney		Cast, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Lymphoma, Histiocytic-Malignant Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_542

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Epididymis		Steatitis
Heart	Myocardium Nos	Fibrosis
Intestine Large	Ascending Colon, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Degeneration, Cystic
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Chronic
Pancreas		Atrophy, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_543

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye	Retina	Cataract Degeneration, Nos Hemorrhage
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos Inflammation, Chronic
Liver		Degeneration, Cystic Focal Cellular Change
Lung		Hyperplasia, Alveolar Epithelium Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Skin	Back	Trichoepithelioma
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_544

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye	Retina	Cataract Degeneration, Nos Hemorrhage
Heart	Myocardium Nos	Fibrosis
Intestine Large	Cecum, Colon	Edema, Nos
Kidney		Cast, Nos Inflammation, Chronic
Liver		Angiectasis
Lung		Inflammation, Chronic
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Spleen	Follicles	Atrophy, Nos
Stomach	Submucosa	Edema, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Tunica Vaginalis	Mesothelioma, Malignant
	Multiple Organs Nos	Leukemia, Mononuclear Cell
	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_545

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Focal Cellular Change
		Hyperplasia, Focal
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hyperplasia, Lymphoid
	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell
	Mesenteric Lymph Node	Pigmentation, Nos
Preputial gland		Carcinoma, Nos
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_546

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Medulla	Metamorphosis, Fatty Necrosis, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos Inflammation, Chronic
Liver	Periportal Capsule	Degeneration, Cystic Fibrosis Inflammation, Acute Fibrinous Metamorphosis, Fatty
Lung		Thrombus, Fibrin
Pancreas		Atrophy, Nos
Pituitary gland		Adenoma, Nos
Spleen	Follicles	Atrophy, Nos Hemosiderosis
Stomach	Serosa Serosa Serosa	Acanthosis Inflammation, Acute Fibrinous Ulcer, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_547

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Liver

Cortex Nos
Descending, Colon
Periportal

Hyperplasia, Focal
Adenomatous Polyp, Nos
Fibrosis

Lung

Bile Duct

Focal Cellular Change

Skin

Flank

Hyperplasia, Nos

Testis

Inflammation, Chronic

Thyroid

Keratoacanthoma

Unspecified

Axilla

Interstitial-Cell Tumor

C-Cell Adenoma

Fibroma

Diaphragm Nos

Hernia, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_548

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland

Eye

Kidney

Liver

Lung

Lymph node

Pancreas

Testis

Thyroid

Unspecified

Retina

Mandibular Lymph Node

Flank

Pheochromocytoma

Cataract

Degeneration, Nos

Cast, Nos

Inflammation, Chronic

Cyst, Nos

Degeneration, Cystic

Focal Cellular Change

Inflammation, Chronic

Hyperplasia, Plasma Cell

Acinar-Cell Adenoma

Interstitial-Cell Tumor

Hyperplasia, C Cell

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_549

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Ascending Colon, Colon	Hyperplasia, Epithelial
	Ascending Colon, Colon	Mucinous Cystadenocarcinoma
Kidney		Cast, Nos
Liver	Capsule	Adhesion, Fibrous
		Focal Cellular Change
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
	Renal Lymph Node	Pigmentation, Nos
Mammary gland		Galactocele
Pituitary gland		Adenoma, Nos
Preputial gland		Carcinoma, Nos
Spleen		Hemosiderosis
Stomach		Acanthosis
		Adhesion, Fibrous
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Unspecified	Head	Fibrosarcoma
	Multiple Organs Nos	Inflammation, Chronic
	Tail	Trichoepithelioma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_550

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Liver		Hepatocellular Carcinoma
Lung		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic
Urinary bladder		Papilloma, Nos
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_551

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart
Intestine Large
Kidney
Lung
Testis
Thyroid

Myocardium Nos
Descending, Colon

Fibrosis
Adenomatous Polyp, Nos
Cast, Nos
Inflammation, Chronic
Interstitial-Cell Tumor
Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_552

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
		Hepatocellular Carcinoma
Lung		Inflammation, Chronic
Pancreas	Islets	Islet-Cell Carcinoma
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_553

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Intestine Large

Transverse Colon, Colon

Adenocarcinoma, Nos

Liver

Hematopoiesis

Lung

Inflammation, Chronic

Lymph node

Ileocolic Lymph Node

Hyperplasia, Lymphoid

Spleen

Lymphangiectasis

Testis

Hematopoiesis

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_554

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Kidney

Cortex Nos
Descending, Colon

Hyperplasia, Focal
Adenomatous Polyp, Nos
Cast, Nos
Inflammation, Chronic
Hemangiosarcoma
Hemangiosarcoma, Metastatic
Pigmentation, Nos
Pigmentation, Nos
Hematopoiesis
Lymphoma, Histiocytic-Malignant Type
Degeneration, Nos
Interstitial-Cell Tumor

Liver
Lung
Lymph node

Mediastinal Lymph Node
Mesenteric Lymph Node

Spleen

Testis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_555

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Testis

Inflammation, Chronic

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_556

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart
Intestine Large

Myocardium Nos
Descending, Colon
Descending, Colon

Fibrosis
Adenomatous Polyp, Nos
Parasitism

Lung
Lymph node
Testis
Thyroid

Mandibular Lymph Node

Inflammation, Chronic
Hyperplasia, Lymphoid
Interstitial-Cell Tumor
Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_557

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Neoplastic Nodule
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Mammary gland		Cystic Ducts
Pancreas		Atrophy, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_558

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Esophagus
Intestine Large
Kidney
Liver

Pancreas

Testis
Zymbal gland

Colon

Pheochromocytoma
Hyperkeratosis
Parasitism
Cast, Nos
Metamorphosis, Fatty
Necrosis, Nos
Atrophy, Nos
Edema, Interstitial
Interstitial-Cell Tumor
Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_559

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Eye
Kidney

Cortex Nos
Retina

Lung
Mammary gland
Parathyroid gland
Pituitary gland
Spleen
Stomach

Testis

Thyroid

Metamorphosis, Fatty
Degeneration, Nos
Cast, Nos
Inflammation, Chronic
Inflammation, Chronic
Galactocele
Hyperplasia, Nos
Adenoma, Nos
Hemosiderosis
Inflammation, Acute
Ulcer, Nos
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_560

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Ileocolic Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Pituitary gland		Angiectasis
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_561

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Neoplastic Nodule
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mediastinal Lymph Node	Pigmentation, Nos
Mammary gland		Adenoma, Nos
Parathyroid gland		Hyperplasia, Nos
Prostate		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Axilla	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_562

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart
Lung
Lymph node
Zymbal gland

Cortex Nos
Myocardium Nos

Mandibular Lymph Node

Metamorphosis, Fatty
Inflammation, Chronic
Inflammation, Chronic
Hyperplasia, Lymphoid
Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_563

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large
Kidney

Descending, Colon

Adenomatous Polyp, Nos
Cast, Nos

Liver

Inflammation, Chronic

Lung

Hepatocellular Carcinoma

Lymph node

Mesenteric Lymph Node

Inflammation, Chronic

Testis

Pigmentation, Nos

Thyroid

Interstitial-Cell Tumor

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_564

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney

Myocardium Nos
Descending, Colon

Liver

Bile Duct

Lung
Testis
Thymus
Unspecified

Base Of Tail

Pheochromocytoma
Fibrosis
Adenomatous Polyp, Nos
Cast, Nos
Inflammation, Chronic
Focal Cellular Change
Hyperplasia, Nos
Inflammation, Chronic
Interstitial-Cell Tumor
Congestion, Nos
Rhabdomyosarcoma

PRIMARY CAUSE OF DEATH

-

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:41

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_565

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Intestine Large	Colon	Parasitism
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatocellular Carcinoma
		Neoplastic Nodule
Lung		Inflammation, Chronic
Lymph node	Ileocolic Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Pigmentation, Nos
Mammary gland		Galactocele
Pancreas		Atrophy, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:41
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_566

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Ascending Colon, Colon	Inflammation, Chronic
	Ascending Colon, Colon	Mucinous Cystadenocarcinoma
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Neoplastic Nodule
Lung		Inflammation, Chronic
Lymph node	Ileocolic Lymph Node	Lymphangiectasis
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos
Thyroid		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_567

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Hepatitis, Toxic
		Neoplastic Nodule
Lung		Inflammation, Chronic
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_568

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart
Intestine Large

Myocardium Nos
Ascending Colon, Colon
Ascending Colon, Colon

Liver

Fibrosis
Hyperplasia, Lymphoid
Inflammation, Acute/Chronic
Focal Cellular Change
Inflammation, Acute
Leukocytosis, Nos
Inflammation, Acute
Hemosiderosis
Degeneration, Nos
Interstitial-Cell Tumor

Lung
Prostate
Spleen
Testis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_569

TRT#: 2
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Transverse Colon, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Metamorphosis, Fatty
		Neoplastic Nodule
Lung		Inflammation, Chronic
Pancreas	Islets	Islet-Cell Carcinoma
Prostate		Inflammation, Acute/Chronic
Skin	Head	Cyst, Epidermal Inclusion
	Head	Keratoacanthoma
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
		Cystic Follicles

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_570

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Kidney

Liver

Lymph node

Mandibular Lymph Node
Mediastinal Lymph Node

Pancreas
Pituitary gland
Testis
Thyroid
Unspecified

Multiple Organs Nos

Pheochromocytoma
Cast, Nos
Inflammation, Chronic
Hepatitis, Toxic
Hepatocellular Carcinoma
Congestion, Nos
Pigmentation, Nos
Atrophy, Nos
Angiectasis
Interstitial-Cell Tumor
Cystic Follicles
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_696

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Serosa, Colon	Inflammation, Fibrinous
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
Mammary gland		Hyperplasia, Nos
Preputial gland		Angiectasis
Seminal vesicle		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Inflammation, Suppurative
Urinary bladder		Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_697

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Lung

Lymph node

Testis

Unspecified

Urinary bladder

Myocardium Nos

Mediastinal Lymph Node

Mediastinal Lymph Node

Mesenteric Lymph Node

Forearm And Wrist

Pheochromocytoma

Fibrosis

Cast, Nos

Osteosarcoma, Metastatic

Hemorrhage

Pigmentation, Nos

Pigmentation, Nos

Interstitial-Cell Tumor

Osteosarcoma

Inflammation, Chronic Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_698

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Hyperplasia, Lymphoid
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mesenteric Lymph Node	Pigmentation, Nos
Mammary gland		Galactocele
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Chronic
Spleen		Hemosiderosis
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
		Periarteritis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_699

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart		Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Axilla	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_700

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Eye

Medulla

Hyperplasia, Focal
Cataract

Heart
Kidney

Retina
Myocardium Nos

Degeneration, Nos
Fibrosis
Cast, Nos

Liver

Inflammation, Chronic
Pigmentation, Nos
Degeneration, Cystic
Focal Cellular Change

Lymph node
Pancreas
Pituitary gland
Prostate

Mediastinal Lymph Node

Hepatitis, Toxic
Pigmentation, Nos
Acinar-Cell Adenoma
Adenoma, Nos
Hyperplasia, Focal

Testis
Unspecified

Multiple Organs Nos

Inflammation, Suppurative
Interstitial-Cell Tumor
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_701

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Blood vessel	Para Aortic Body	Paraganglioma, Nos
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Hemosiderosis
Stomach		Metaplasia, Squamous
Testis		Interstitial-Cell Tumor
Thymus		Ectopia
Thyroid		Hyperplasia, C Cell
Unspecified	Axilla	Fibroma
	Lower Leg Nos	Osteosarcoma
	Multiple Organs Nos	Osteosarcoma, Metastatic
Zymbal gland		Abscess, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_702

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos Atrium	Fibrosis Thrombus, Organized
Kidney		Cast, Nos
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node Mandibular Lymph Node	Hemorrhage Hyperplasia, Lymphoid
Pancreas		Atrophy, Nos
Spleen		Fibrosis Hemosiderosis
Testis		Interstitial-Cell Tumor Mineralization
Thyroid		C-Cell Adenoma Follicular-Cell Carcinoma
Unspecified	Head Multiple Organs Nos	Inflammation, Suppurative Leukemia, Monocytic
Zymbal gland		Abscess, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_703

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Pigmentation, Nos
Liver		Degeneration, Cystic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mesenteric Lymph Node	Pigmentation, Nos
Prostate		Hyperplasia, Focal
		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_704

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Small	Duodenum	Inflammation, Acute
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
	Bile Duct	Hyperplasia, Nos
Lung		Hyperplasia, Alveolar Epithelium
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Stomach		Inflammation, Acute
		Ulcer, Acute
Testis	Tubule	Degeneration, Nos
		Interstitial-Cell Tumor
		Mineralization
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_705

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye

Retina

Cataract

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Fibrosis

Lung

Cast, Nos

Skin

Head

Inflammation, Chronic

Testis

Inflammation, Chronic

Squamous Cell Carcinoma

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_706

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Hepatic Sinusoid	Leukocytosis, Nos
Pancreas	Islets	Hyperplasia, Focal
		Periarteritis
Pituitary gland		Cyst, Nos
Prostate		Hyperplasia, Focal
		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Back Nos	Rhabdomyosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_707

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Congestion, Nos
	Mediastinal Lymph Node	Congestion, Nos
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Mammary gland		Adenoma, Nos
		Fibroadenoma
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_708

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma
Eye	Retina	Cataract Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos Inflammation, Chronic
Liver		Hepatitis, Toxic
Lung		Inflammation, Chronic
Lymph node	Ileocolic Lymph Node	Lymphangiectasis
Pancreas	Mediastinal Lymph Node	Pigmentation, Nos
Pituitary gland	Islets	Islet-Cell Adenoma
Stomach		Adenoma, Nos
Testis		Acanthosis Degeneration, Nos
Thyroid	Tunica Vaginalis	Mesothelioma, Malignant
Unspecified	Multiple Organs Nos	Cystic Follicles Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_709

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone	Sternum	Fibrosis, Myelo
Eye		Cataract
	Retina	Degeneration, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Prostate		Hyperplasia, Nos
		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_710

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye	Retina	Cataract Degeneration, Nos Inflammation, Chronic
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos Inflammation, Chronic Pigmentation, Nos
Liver		Hepatitis, Toxic Hyperplasia, Nos
Lymph node	Bile Duct Mandibular Lymph Node Mediastinal Lymph Node	Hyperplasia, Plasma Cell Pigmentation, Nos
Nasal cavity	Turbinate Nos	Inflammation, Suppurative
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_711

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lymph node

Mammary gland

Pancreas

Spleen

Testis

Thyroid

Unspecified

Myocardium Nos

Pancreatic Lymph Node

Renal Lymph Node

Multiple Organs Nos

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Hepatitis, Toxic

Pigmentation, Nos

Pigmentation, Nos

Adenoma, Nos

Atrophy, Nos

Fibrosis

Interstitial-Cell Tumor

C-Cell Adenoma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_712

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
	Atrium	Thrombus, Fibrin
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Metamorphosis, Fatty
		Necrosis, Coagulative
Lung		Inflammation, Chronic
Prostate		Inflammation, Acute/Chronic
Spleen		Atrophy, Nos
		Hemosiderosis
Stomach		Inflammation, Acute Focal
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Fibrosarcoma, Metastatic
	Neck	Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_713

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Medulla
Myocardium Nos

Hyperplasia, Focal
Fibrosis
Cast, Nos
Inflammation, Chronic
Inflammation, Chronic
Hyperplasia, Lymphoid
Pigmentation, Nos
Hypertrophy, Focal
Hyperplasia, Focal
Hemosiderosis
Interstitial-Cell Tumor
Squamous Cell Carcinoma

Lung
Lymph node

Mesenteric Lymph Node
Mesenteric Lymph Node

Salivary gland
Seminal vesicle
Spleen
Testis
Zymbal gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_714

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Bone	Skull	Hyperostosis
Eye	Retina	Degeneration, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Focal Cellular Change
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Mammary gland		Galactocele
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Suppurative
Skin	Lip Nos	Basal-Cell Tumor
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Follicular-Cell Adenoma
		Hyperplasia, C Cell
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_715

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye	Retina	Cataract Degeneration, Nos Inflammation, Chronic
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos Inflammation, Chronic
Pancreas	Islets	Islet-Cell Carcinoma
Prostate		Inflammation, Acute/Chronic
Salivary gland		Fibrosarcoma
Skin		Keratoacanthoma
Spleen		Infarct, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_716

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Eye		Cataract
	Retina	Degeneration, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Hepatitis, Toxic
	Bile Duct	Hyperplasia, Nos
Lymph node	Mediastinal Lymph Node	Hemorrhage
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_717

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Heart

Myocardium Nos

Fibrosis

Lung

Inflammation, Chronic

Lymph node

Cervical Lymph Node Nos

Sarcoma, Nos, Invasive

Salivary gland

Sarcoma, Nos

Skin

Acanthosis

Edema, Nos

Head Nos

Sarcoma, Nos

Testis

Interstitial-Cell Tumor

Thyroid

Follicular-Cell Adenoma

Sarcoma, Nos, Invasive

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_718

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Pancreas

Prostate

Spleen

Stomach

Testis

Unspecified

Myocardium Nos

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Necrosis, Nos

Acinar-Cell Adenoma

Inflammation, Acute/Chronic

Hemosiderosis

Inflammation, Acute

Ulcer, Acute

Degeneration, Nos

Interstitial-Cell Tumor

Osteosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_719

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Epididymis		Necrosis, Fat
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Pancreatic Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Suppurative
Skin	Circumanal Gland	Cyst, Nos
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Malignant
Unspecified	Multiple Organs Nos	Mesothelioma, Metastatic
Urinary bladder		Hemorrhage
		Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_720

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Small	Duodenum	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Suppurative
Skin	Hip	Keratoacanthoma
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma
		Hyperplasia, C Cell
Unspecified		Fibroma
Zymbal gland		Keratoacanthoma

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_721

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Lung

Testis

Unspecified

Multiple Organs Nos

Cast, Nos

Inflammation, Chronic

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_722

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Cortical Adenoma
Bone	Rib	Osteosarcoma
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Tubular-Cell Adenocarcinoma
	Bile Duct	Degeneration, Cystic
		Hyperplasia, Nos
Lung	Alveoli	Necrosis, Coagulative
		Histiocytosis
Lymph node	Mandibular Lymph Node	Inflammation, Chronic
	Pancreatic Lymph Node	Hyperplasia, Plasma Cell
	Cervical Lymph Node Nos	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Mammary gland		Pigmentation, Nos
Pancreas	Islets	Fibroadenoma
Prostate		Islet-Cell Carcinoma
Spleen		Hyperplasia, Epithelial
Testis	Tubule	Fibrosis
		Degeneration, Nos
Thyroid		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Follicular-Cell Carcinoma
	Perineum	Leukemia, Monocytic
		Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_723

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Bile Duct

Inflammation, Chronic

Lung

Hyperplasia, Nos

Lymph node

Inflammation, Chronic

Mammary gland

Mesenteric Lymph Node

Pigmentation, Nos

Testis

Fibroma

Thyroid

Interstitial-Cell Tumor

Urinary bladder

Cystic Follicles

Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_724

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Degeneration, Cystic
		Focal Cellular Change
		Hepatitis, Toxic
		Hyperplasia, Focal
Lymph node	Pancreatic Lymph Node	Hemorrhage
	Mediastinal Lymph Node	Hyperplasia, Reticulum Cell
	Pancreatic Lymph Node	Inflammation, Acute
	Mandibular Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Pigmentation, Nos
	Pancreatic Lymph Node	Pigmentation, Nos
Pancreas		Acinar-Cell Adenoma
Stomach		Acanthosis
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_725

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Fibrosis

Kidney

Cast, Nos

Inflammation, Chronic

Pigmentation, Nos

Liver

Hepatitis, Toxic

Pancreas

Atrophy, Nos

Spleen

Infarct, Nos

Testis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_726

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lung

Prostate

Testis

Unspecified

Myocardium Nos

Flank

Pheochromocytoma

Fibrosis

Cast, Nos

Pigmentation, Nos

Focal Cellular Change

Congestion, Nos

Hyperplasia, Nos

Interstitial-Cell Tumor

Fibroma

Neurofibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_727

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Inflammation, Chronic

Focal Cellular Change

Lymph node

Mesenteric Lymph Node

Metamorphosis, Fatty

Spleen

Lymphangiectasis

Testis

Hemosiderosis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_728

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone	Skull	Hyperostosis
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Preputial gland		Carcinoma, Nos
Prostate		Hyperplasia, Epithelial
Spleen		Hemangiosarcoma
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Back	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_729

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Ear		Hyperplasia, Epithelial
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Mesothelioma, Malignant
	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_730

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Focal Cellular Change
		Hyperplasia, Nos
		Metamorphosis, Fatty
		Pigmentation, Nos
Lung		Inflammation, Granulomatous
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
	Pancreatic Lymph Node	Pigmentation, Nos
Mammary gland		Hyperplasia, Nos
Pancreas		Acinar-Cell Carcinoma
		Atrophy, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Hypertrophy, Focal
Preputial gland		Dilatation, Ducts
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_731

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Fibrosis
		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos
	Pancreatic Lymph Node	Pigmentation, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Hyperplasia, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_732

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Spleen

Hematopoiesis

Testis

Degeneration, Nos

Unspecified

Multiple Organs Nos

Carcinosarcoma, Metastatic

Zymbal gland

Carcinosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_733

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
	Periportal	Fibrosis
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Chronic
Pancreas		Islet-Cell Carcinoma
Parathyroid gland	Islets	Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_734

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
		Pigmentation, Nos
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Hyperplasia, Lymphoid
Pancreas		Atrophy, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_735

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Myocardium Nos

Pheochromocytoma, Malignant

Inflammation, Chronic

Cast, Nos

Inflammation, Chronic

Pigmentation, Nos

Lung

Inflammation, Chronic

Pheochromocytoma, Metastatic

Lymph node

Mediastinal Lymph Node

Hemorrhage

Mediastinal Lymph Node

Pigmentation, Nos

Pituitary gland

Adenoma, Nos

Prostate

Inflammation, Acute/Chronic

Spleen

Hemosiderosis

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_736

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Blood vessel	Aorta Nos	Mineralization
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Cecum, Colon	Parasitism
Kidney		Cast, Nos
		Inflammation, Chronic
		Mineralization
		Pigmentation, Nos
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Mammary gland		Fibroadenoma
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Skin		Squamous Cell Papilloma
Stomach		Inflammation, Acute/Chronic
		Ulcer, Perforated
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_737

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Lung

Inflammation, Chronic

Lymph node

Inflammation, Chronic

Mandibular Lymph Node

Hyperplasia, Lymphoid

Mediastinal Lymph Node

Hyperplasia, Lymphoid

Mesenteric Lymph Node

Lymphangiectasis

Prostate

Inflammation, Suppurative

Stomach

Acanthosis

Testis

Inflammation, Acute

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_738

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
	Periportal	Fibrosis
		Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Chronic
		Inflammation, Granulomatous Focal
Pancreas		Acinar-Cell Adenoma
Skin		Cyst, Epidermal Inclusion
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Lymphoma, Histiocytic-Malignant Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_739

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Degeneration, Cystic
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Neoplastic Nodule
Lung	Alveoli	Histiocytosis
		Inflammation, Chronic Focal
Lymph node	Renal Lymph Node	Hemorrhage
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Renal Lymph Node	Pigmentation, Nos
Mammary gland		Hyperplasia, Nos
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Stomach	Submucosa	Edema, Nos
		Inflammation, Acute/Chronic
		Ulcer, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma
Unspecified	Back	Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_740

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Lymph node

Mediastinal Lymph Node

Hemorrhage

Spleen

Hematopoiesis

Stomach

Hyperplasia, Basal Cell

Testis

Hyperplasia, Interstitial Cell

Thyroid

Hyperplasia, C Cell

Unspecified

Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_741

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Inflammation, Chronic

Lung

Degeneration, Cystic

Neoplastic Nodule

Pancreas

Hyperplasia, Alveolar Epithelium

Inflammation, Chronic

Testis

Acinar-Cell Adenoma

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_742

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma
Bone	Mandible	Squamous Cell Papilloma
Eye		Cataract
Heart	Retina	Degeneration, Nos
Kidney	Myocardium Nos	Fibrosis Cast, Nos Inflammation, Chronic
Liver		Hepatitis, Toxic
Lymph node	Bile Duct	Hyperplasia, Nos
	Cervical Lymph Node Nos	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Cervical Lymph Node Nos	Lymphangiectasis
	Mandibular Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas	Islets	Islet-Cell Adenoma
Prostate		Inflammation, Suppurative
Skin		Keratoacanthoma
Spleen		Fibrosis
Testis		Degeneration, Nos Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Mineralization Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_743

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
		Inflammation, Interstitial
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas	Islets	Islet-Cell Carcinoma
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Hyperplasia, C Cell
Trachea		Cyst, Nos
Unspecified	Flank	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_744

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Small
Kidney

Jejunum

Diverticulosis
Cast, Nos
Inflammation, Chronic
Hepatitis, Toxic
Infarct, Nos
Interstitial-Cell Tumor

Liver
Spleen
Testis
Thyroid
Unspecified

Multiple Organs Nos

Fibroma
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_745

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Degeneration, Cystic
		Focal Cellular Change
Mammary gland		Adenoma, Nos
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Adenoma, Nos
Pituitary gland		Adenoma, Nos
Prostate		Hyperplasia, Epithelial
Spleen		Fibrosis
		Hemosiderosis
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_746

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Necrosis, Nos
Lung		Inflammation, Chronic
Pancreas		Atrophy, Nos
Prostate		Inflammation, Acute/Chronic
Skin		Edema, Nos
Spleen		Hematopoiesis
Stomach		Inflammation, Acute
		Ulcer, Nos
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_747

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Epididymis

Necrosis, Fat

Heart

Myocardium Nos

Steatitis

Kidney

Fibrosis

Lung

Cast, Nos

Testis

Inflammation, Chronic

Unspecified

Multiple Organs Nos

Inflammation, Chronic

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_748

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Cast, Nos

Inflammation, Chronic

Lung

Hyperplasia, Alveolar Epithelium

Spleen

Hemosiderosis

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_749

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Myocardium Nos

Pheochromocytoma
Fibrosis
Cast, Nos
Cyst, Nos
Inflammation, Chronic
Inflammation, Chronic
Pigmentation, Nos
Sarcoma, Nos, Invasive
Inflammation, Acute/Chronic
Sarcoma, Nos
Hyperplasia, Focal
Leukemia, Monocytic
Interstitial-Cell Tumor
Hyperplasia, C Cell

Lung
Lymph node

Mesenteric Lymph Node
Mandibular Lymph Node

Prostate
Salivary gland
Seminal vesicle
Spleen
Testis
Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_750

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Small	Duodenum	Mucinous Cystadenocarcinoma
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Neoplastic Nodule
Preputial gland		Dilatation, Ducts
Spleen		Infarct, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_751

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma, Malignant
Eye		Cataract
	Retina	Degeneration, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver	Periportal	Fibrosis
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lung		Hyperplasia, Alveolar Epithelium
		Inflammation, Chronic
		Pheochromocytoma, Metastatic
Pancreas		Atrophy, Nos
	Islets	Islet-Cell Adenoma
Stomach		Hyperplasia, Adenomatous
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_752

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Pigmentation, Nos
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Leg	Fibrous Histiocytoma, Malignant
	Multiple Organs Nos	Fibrous Histiocytoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_753

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Degeneration, Cystic
	Bile Duct	Hyperplasia, Nos
		Necrosis, Coagulative
		Neoplastic Nodule
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Mammary gland		Fibroadenoma
Pancreas		Acinar-Cell Adenoma
Prostate		Inflammation, Granulomatous Focal
Spleen		Fibrosis
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_754

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Kidney

Cortex Nos

Metamorphosis, Fatty

Liver
Lymph node
Spleen
Testis

Mediastinal Lymph Node

Cast, Nos

Congestion, Nos

Congestion, Nos

Hemorrhage

Inflammation, Chronic

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_755

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Medulla
Myocardium Nos

Hyperplasia, Focal
Fibrosis
Cast, Nos
Cyst, Nos

Liver

Periportal

Inflammation, Chronic
Degeneration, Cystic
Fibrosis
Focal Cellular Change
Metamorphosis, Fatty

Lung
Pancreas

Inflammation, Chronic
Acinar-Cell Adenoma
Atrophy, Nos

Parathyroid gland
Testis

Adenoma, Nos
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_756

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Colon

Parasitism

Kidney

Cast, Nos

Lung

Alveolar/Bronchiolar Adenoma

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_757

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Pigmentation, Nos
Pituitary gland		Angiectasis
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_758

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Fibrosis

Kidney

Cast, Nos

Inflammation, Chronic

Lung

Inflammation, Chronic

Preputial gland

Carcinoma, Nos

Spleen

Hematopoiesis

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_759

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Pheochromocytoma

Heart

Myocardium Nos

Fibrosis

Kidney

Cast, Nos

Inflammation, Chronic

Lung

Inflammation, Chronic

Pancreas

Atrophy, Nos

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

Zymbal gland

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_760

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Blood vessel	Aorta Nos	Mineralization
	Pulmonary Artery Nos	Mineralization
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
		Mineralization
		Pigmentation, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Pigmentation, Nos
Mammary gland		Adenoma, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Pigmentation, Nos
Skin		Squamous Cell Papilloma
Spleen		Hemosiderosis
Stomach		Inflammation, Acute
		Ulcer, Acute
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Hyperplasia, C Cell
Unspecified	Abdominal Wall Nos	Inflammation, Chronic
	Multiple Organs Nos	Inflammation, Suppurative
Urinary bladder		Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_761

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large
Kidney

Muscularis, Colon

Degeneration, Nos
Cast, Nos
Inflammation, Chronic
Nephrosis, Hydro

Liver
Lymph node
Parathyroid gland
Pituitary gland
Prostate

Mediastinal Lymph Node

Focal Cellular Change
Pigmentation, Nos
Hyperplasia, Nos
Adenoma, Nos
Carcinoma, Nos
Inflammation, Acute/Chronic

Spleen
Stomach

Muscularis

Hemosiderosis
Degeneration, Nos
Interstitial-Cell Tumor

Testis
Thyroid

Unspecified

Multiple Organs Nos

C-Cell Carcinoma
Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_762

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Cortex Nos
Myocardium Nos

Necrosis, Nos
Fibrosis
Cast, Nos
Inflammation, Chronic
Inflammation, Chronic

Lung
Lymph node

Mediastinal Lymph Node
Mesenteric Lymph Node

Congestion, Nos
Hyperplasia, Reticulum Cell
Inflammation, Acute/Chronic
Inflammation, Acute

Prostate
Stomach
Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_763

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain	Ventricle	Dilatation, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Skin		Acanthosis
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Malignant
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_764

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Pigmentation, Nos
Mammary gland		Adenoma, Nos
Pancreas		Atrophy, Nos
Pituitary gland		Angiectasis
Prostate		Inflammation, Acute/Chronic
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Axilla	Fibroma
	Leg	Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_765

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Bone	Interchondral Joint	Osteosarcoma
Heart	Myocardium Nos	Fibrosis
Intestine Large	Ascending Colon, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Ileocolic Lymph Node	Lymphangiectasis
	Mandibular Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Pituitary gland		Angiectasis
		Hyperplasia, Focal
Spleen		Fibrosis
		Infarct, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic
	Multiple Organs Nos	Osteosarcoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_766

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
Liver		Hepatitis, Toxic
Lung		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_767

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain		Astrocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Spleen		Fibrosis, Focal
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_768

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
		Hepatitis, Toxic
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_769

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Epididymis		Necrosis, Fat
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos
Mammary gland		Galactocele
Pituitary gland		Carcinoma, Nos
Prostate		Inflammation, Acute/Chronic
Skin	Flank	Cyst, Nos
	Perineum	Keratoacanthoma
Stomach	Submucosa	Edema, Nos
		Inflammation, Acute
		Ulcer, Perforated
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_770

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon
Colon

Adenomatous Polyp, Nos
Parasitism

Kidney

Cast, Nos

Lymph node

Mesenteric Lymph Node

Inflammation, Chronic

Testis

Hyperplasia, Lymphoid

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_771

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart		Adenocarcinoma, Nos, Metastatic
Intestine Large	Cecum, Colon	Edema, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Pigmentation, Nos
		Hemorrhage
		Metamorphosis, Fatty
Lung		Adenocarcinoma, Nos, Metastatic
Lymph node	Mesenteric Lymph Node	Hemorrhage
	Pancreatic Lymph Node	Hemorrhage
	Pancreatic Lymph Node	Pigmentation, Nos
Mammary gland		Fibroadenoma
Skin	Dermis	Hyperplasia, Nos
Spleen		Sarcoma, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_772

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma
Epididymis		Necrosis, Fat Steatitis
Eye		Cataract
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Lung	Pleura Nos	Adenocarcinoma, Nos, Metastatic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Pituitary gland		Adenoma, Nos
Preputial gland		Dilatation, Ducts Inflammation, Acute/Chronic
Prostate		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Mediastinum Nos	Adenocarcinoma, Nos, Metastatic
	Back	Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_773

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Skin	Back	Keratoacanthoma
Spleen		Hemosiderosis
Stomach		Acanthosis
	Submucosa	Edema, Nos
		Inflammation, Acute
		Ulcer, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Lumbar Region	Chondrosarcoma
Urinary bladder		Hyperplasia, Papillary

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_774

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Inflammation, Suppurative
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Lung		Squamous Cell Carcinoma, Metastatic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mediastinal Lymph Node	Hyperplasia, Reticulum Cell
	Mediastinal Lymph Node	Squamous Cell Carcinoma, Metastatic
Parathyroid gland		Hyperplasia, Nos
Prostate	Coagulating Gland	Inflammation, Acute/Chronic
Stomach	Mucosa	Hyperplasia, Nos
		Mineralization
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Thoracic Cavity Nos	Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_775

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Skin	Lower Leg	Cyst, Dermal Inclusion
	Lip Nos	Squamous Cell Papilloma
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Malignant
Thyroid		Follicular-Cell Adenoma
Unspecified	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_776

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Brain		Gliosis
		Hemorrhage
Heart		Inflammation, Chronic
Liver		Congestion, Nos
Lung		Congestion, Nos
		Hemorrhage
		Inflammation, Chronic
Nasal cavity	Turbinate Nos	Congestion, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_777

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone	Skull	Hyperostosis
Kidney		Cast, Nos
		Pigmentation, Nos
Lung		Inflammation, Chronic
Mammary gland		Galactocele
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
	Scrotum Nos	Mesothelioma, Malignant
	Tunica Vaginalis	Mesothelioma, Malignant
Unspecified	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_778

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Pituitary gland		Adenoma, Nos
Preputial gland		Carcinoma, Nos
Spleen		Hemosiderosis
Stomach		Acanthosis
		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_779

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Epididymis		Necrosis, Fat
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
Liver		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell
	Mandibular Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Mammary gland		Galactocele
Pancreas		Atrophy, Nos
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Malignant
Unspecified	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_780

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic Mineralization
Liver	Bile Duct	Hyperplasia, Nos Pigmentation, Nos
Lung		Hyperplasia, Alveolar Epithelium Inflammation, Interstitial
Parathyroid gland		Hyperplasia, Nos
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Skeletal muscle		Thrombosis, Nos
Spleen		Hemosiderosis
Stomach		Mineralization
Testis		Interstitial-Cell Tumor
Urethra		Obstruction, Nos
Urinary bladder		Hemorrhage Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_781

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
Lung		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_782

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Intestine Large	Cecum, Colon	Edema, Nos
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
		Hyperplasia, Nos
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Acinar-Cell Adenoma
	Islets	Islet-Cell Carcinoma
Prostate		Inflammation, Acute/Chronic
Seminal vesicle		Inflammation, Suppurative
Spleen		Fibrosis
Stomach		Necrosis, Focal
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
		Cystic Follicles
Unspecified	Back	Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_783

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Cortical Adenoma
Heart	Myocardium Nos	Fibrosis
Intestine Large	Cecum, Colon	Edema, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Angiectasis
		Degeneration, Cystic
		Hepatitis, Toxic
		Hyperplasia, Focal
		Neoplastic Nodule
Lymph node	Celiac Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
	Pancreatic Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Fibrosis, Focal
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_784

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Pancreas

Testis

Thyroid

Unspecified

Multiple Organs Nos

Cast, Nos

Atrophy, Nos

Interstitial-Cell Tumor

Cyst, Follicular Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_785

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Bone	Mandible	Abscess, Chronic
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver	Periportal	Angiectasis
		Fibrosis
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Prostate		Hyperplasia, Epithelial
		Inflammation, Acute/Chronic
Seminal vesicle		Inflammation, Suppurative
Skin	Lower Leg	Keratoacanthoma
	Tail	Keratoacanthoma
Stomach		Ulcer, Acute
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Urinary bladder		Hyperplasia, Papillary

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_786

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Metamorphosis, Fatty
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Mammary gland		Galactocele
		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Suppurative
Skin		Keratoacanthoma
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_787

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Degeneration, Cystic
		Hepatitis, Toxic
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
Mammary gland		Fibroadenoma
Spleen		Fibrosis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
		Follicular-Cell Carcinoma
Tongue		Abscess, Chronic
		Hyperkeratosis
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_788

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Epididymis		Necrosis, Fat
		Steatitis
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Degeneration, Cystic
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
		Neoplastic Nodule
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Skin		Keratoacanthoma
Spleen		Fibrosis
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
		Hyperplasia, C Cell
Unspecified	Flank	Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_789

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mediastinal Lymph Node	Pigmentation, Nos
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Malignant
Unspecified	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_790

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel	Aorta Nos	Mineralization
	Sup.Panc-Duod.Artery	Mineralization
Eye	Retina	Cataract
		Degeneration, Nos
		Hemorrhage
Heart	Myocardium Nos	Fibrosis
Intestine Large	Colon	Inflammation, Chronic Focal
Kidney		Cast, Nos
Liver	Periportal	Fibrosis
		Hepatitis, Toxic
Lymph node	Mandibular Lymph Node	Congestion, Nos
	Mediastinal Lymph Node	Congestion, Nos
	Renal Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Suppurative
Spleen		Infarct, Nos
Stomach		Inflammation, Acute/Chronic
		Ulcer, Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Axilla	Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_791

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Liver

Lymph node

Pancreas

Pituitary gland

Testis

Unspecified

Retina

Myocardium Nos

Mandibular Lymph Node

Neck

Cortical Adenoma

Cataract

Degeneration, Nos

Fibrosis

Cast, Nos

Inflammation, Chronic

Angiectasis

Degeneration, Cystic

Focal Cellular Change

Hyperplasia, Plasma Cell

Atrophy, Nos

Adenoma, Nos

Interstitial-Cell Tumor

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_792

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Pancreas		Acinar-Cell Adenoma
		Atrophy, Nos
	Islets	Islet-Cell Carcinoma
Parathyroid gland		Hyperplasia, Nos
Penis	Prepuce Nos	Squamous Cell Carcinoma
Prostate		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
Unspecified	Flank	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_793

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Eye		Cataract
	Retina	Degeneration, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
		Necrosis, Coagulative
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Pancreas		Atrophy, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Stomach		Cyst, Nos
Testis		Interstitial-Cell Tumor
		Mineralization
Thyroid		C-Cell Adenoma
Unspecified	Back	Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_794

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Hepatitis, Toxic
Preputial gland		Carcinoma, Nos
Prostate		Inflammation, Acute/Chronic
Stomach		Acanthosis
	Submucosa	Edema, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Axilla	Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_795

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain		Meningioma
Kidney		Cast, Nos
Lung		Meningioma, Metastatic
Lymph node	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_796

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Intestine Large	Serosa, Colon	Periarteritis
Kidney		Inflammation, Chronic
		Pigmentation, Nos
Liver		Focal Cellular Change
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell
	Pancreatic Lymph Node	Hyperplasia, Reticulum Cell
Pancreas		Acinar-Cell Adenoma
Spleen		Congestion, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Axilla	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_797

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver		Necrosis, Focal
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell
	Mesenteric Lymph Node	Pigmentation, Nos
Spleen		Hematopoiesis
Stomach		Adenocarcinoma, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_798

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
		Hemorrhage
Heart	Myocardium Nos	Fibrosis
	Atrium	Thrombus, Fibrin
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Necrosis, Coagulative
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Malignant
Thyroid		Cystic Follicles
Unspecified	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_799

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone	Skull	Hyperostosis
Eye		Cataract
	Retina	Degeneration, Nos
Kidney		Cast, Nos
Lung		Hyperplasia, Alveolar Epithelium
Oral mucosa	Mouth Nos	Acanthosis
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland		Adenoma, Nos
Prostate		Hyperplasia, Epithelial
Stomach	Submucosa	Edema, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Follicular-Cell Carcinoma
Unspecified		Fibroma
	Multiple Organs Nos	Leukemia, Myelomonocytic
Zymbal gland		Hyperkeratosis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_800

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
	Pancreatic Lymph Node	Pigmentation, Nos
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		C-Cell Carcinoma, Invasive
Prostate		Inflammation, Suppurative
Salivary gland		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_801

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Lung	Inflammation, Chronic
Testis	Interstitial-Cell Tumor
Zymbal gland	Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_802

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Harderian gland	Harderian Gland	Inflammation, Granulomatous Focal
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Pancreas		Acinar-Cell Adenoma
Small intestine	Submucosa	Edema, Nos
Spleen		Hemosiderosis
Stomach	Submucosa	Edema, Nos
		Ulcer, Perforated
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_803

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma
Bone	Sternum	Fibrosis, Myelo
Eye		Cataract
	Retina	Degeneration, Nos
	Iris	Melanoma, Malignant
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos Cyst, Nos Inflammation, Chronic
Liver		Hepatitis, Toxic Necrosis, Coagulative Pigmentation, Nos
Lymph node	Mediastinal Lymph Node	Lymphangiectasis
Pancreas		Atrophy, Nos
Pituitary gland		Necrosis, Focal
Prostate		Inflammation, Suppurative
Skin		Squamous Cell Papilloma
Spleen		Fibrosis
Stomach	Submucosa	Edema, Nos Ulcer, Acute
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_804

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart		Thrombus, Fibrin
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Degeneration, Cystic
		Hepatitis, Toxic
	Bile Duct	Hyperplasia, Nos
Spleen		Fibrosis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_805

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma, Malignant
Eye	Retina	Cataract Degeneration, Nos Hemorrhage
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos Cyst, Nos Inflammation, Chronic Lipoma
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Pancreas	Islets	Islet-Cell Carcinoma
Prostate		Inflammation, Suppurative
Skin	Back	Sebaceous Adenoma
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic
Urinary bladder		Hyperplasia, Papillary Inflammation, Acute/Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_806

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Hyperplasia, Lymphoid
Pancreas		Atrophy, Nos
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
		Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_807

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Suppurative
Spleen		Angiectasis
		Interstitial-Cell Tumor, Metastatic
Testis		Interstitial-Cell Tumor, Malignant

PRIMARY CAUSE OF DEATH

-

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_808

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Pancreatic Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
	Islets	Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Unspecified	Back	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_809

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatocellular Carcinoma
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Renal Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
	Renal Lymph Node	Pigmentation, Nos
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Fibrosis
		Hemosiderosis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_810

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Hyperplasia, Lymphoid
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mesenteric Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Prostate		Inflammation, Acute/Chronic
Skin	Face	Squamous Cell Carcinoma
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_811

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
Lung		Inflammation, Chronic
Pancreas		Atrophy, Nos
Skin	Flank	Keratoacanthoma
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_812

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Myocardium Nos

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Pigmentation, Nos

Focal Cellular Change

Liver

Pancreas

Testis

Unspecified

Islets

Islet-Cell Carcinoma

Interstitial-Cell Tumor

Carcinoma, Nos

Zymbal gland

Perineum

Leukemia, Monocytic

Multiple Organs Nos

Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_813

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Pigmentation, Nos
Liver		Necrosis, Nos
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
	Acinus	Hyperplasia, Focal
Preputial gland		Carcinoma, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
	Scrotum Nos	Mesothelioma, Malignant
	Tunica Vaginalis	Mesothelioma, Malignant
Unspecified	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_814

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Kidney

Cortex Nos

Metamorphosis, Fatty

Lymph node

Mesenteric Lymph Node

Cast, Nos

Pituitary gland

Inflammation, Chronic

Prostate

Hyperplasia, Reticulum Cell

Spleen

Adenoma, Nos

Stomach

Inflammation, Suppurative

Testis

Hemosiderosis

Acanthosis

Degeneration, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_815

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Liver

Lymph node

Pancreas

Parathyroid gland

Prostate

Testis

Unspecified

Retina

Myocardium Nos

Mediastinal Lymph Node

Multiple Organs Nos

Pheochromocytoma

Cataract

Degeneration, Nos

Fibrosis

Cast, Nos

Inflammation, Chronic

Necrosis, Coagulative

Pigmentation, Nos

Atrophy, Nos

Hyperplasia, Nos

Inflammation, Suppurative

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_816

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Pigmentation, Nos
Pancreas	Islets	Islet-Cell Carcinoma
Preputial gland		Carcinoma, Nos
Skin		Keratoacanthoma
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Hyperplasia, Follicular Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_817

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Hemorrhage
		Inflammation, Suppurative
Harderian gland	Harderian Gland	Sarcoma, Nos, Invasive
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mandibular Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Pigmentation, Nos
Salivary gland		Sarcoma, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Thigh	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_818

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Focal Cellular Change
Lymph node	Mandibular Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_819

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney

Medulla
Myocardium Nos
Colon

Liver

Hyperplasia, Focal
Fibrosis
Parasitism
Cast, Nos
Inflammation, Chronic
Hepatitis, Toxic
Hepatocellular Carcinoma
Neoplastic Nodule
Inflammation, Granulomatous Focal
Fibroadenoma
Degeneration, Nos
C-Cell Adenoma
Leukemia, Monocytic

Lung
Mammary gland
Testis
Thyroid
Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_820

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney

Medulla

Hyperplasia, Focal
Cast, Nos

Lung
Lymph node
Mammary gland

Mesenteric Lymph Node

Inflammation, Chronic
Fibrosarcoma, Metastatic

Salivary gland
Testis

Pigmentation, Nos

Galactocele

Unspecified

Neck

Fibrosarcoma, Invasive

Interstitial-Cell Tumor

Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_821

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hypertrophy, Focal

Pheochromocytoma

Heart

Myocardium Nos

Fibrosis

Kidney

Cast, Nos

Inflammation, Chronic

Lung

Inflammation, Interstitial

Testis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_822

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Fibrosis

Kidney

Cast, Nos

Inflammation, Chronic

Lymph node

Mediastinal Lymph Node

Pigmentation, Nos

Testis

Interstitial-Cell Tumor

Thyroid

Cystic Follicles

Unspecified

Neck

Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_823

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Lung

Inflammation, Chronic

Lymph node

Inflammation, Chronic

Mammary gland

Cervical Lymph Node Nos

Hyperplasia, Lymphoid

Prostate

Galactocele

Testis

Inflammation, Acute/Chronic

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_824

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lymph node

Pituitary gland

Prostate

Testis

Thyroid

Unspecified

Myocardium Nos

Mediastinal Lymph Node

Mediastinal Lymph Node

Flank

Multiple Organs Nos

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Focal Cellular Change

Neoplastic Nodule

Lymphangiectasis

Pigmentation, Nos

Adenoma, Nos

Hyperplasia, Epithelial

Interstitial-Cell Tumor

Hyperplasia, C Cell

Fibroma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_825

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Skin

Back

Keratoacanthoma

Testis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_826

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Acinar-Cell Adenoma
Skin		Keratoacanthoma
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Malignant
Thyroid		Cystic Follicles
Unspecified	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_827

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Colon	Parasitism
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Renal Lymph Node	Hyperplasia, Lymphoid
	Renal Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Flank	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_828

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Hepatitis, Toxic
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Stomach		Acanthosis
	Submucosa	Edema, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_829

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Kidney
Lung
Lymph node
Testis
Unspecified

Colon

Mesenteric Lymph Node

Axilla

Pheochromocytoma
Parasitism
Cast, Nos
Inflammation, Chronic
Lymphangiectasis
Interstitial-Cell Tumor
Fibroma

PRIMARY CAUSE OF DEATH

-

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_830

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Lung

Inflammation, Chronic

Testis

Inflammation, Chronic

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_831

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
Lung		Congestion, Nos
		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_832

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Prostate		Hyperplasia, Focal
Stomach		Acanthosis
		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_833

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Blood vessel	Aorta Nos	Mineralization
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Mineralization
Kidney		Cast, Nos
		Inflammation, Chronic
		Mineralization
Lymph node	Mandibular Lymph Node	Congestion, Nos
	Mediastinal Lymph Node	Congestion, Nos
	Mediastinal Lymph Node	Pigmentation, Nos
Parathyroid gland		Hyperplasia, Nos
Skin	Circumanal Gland	Cyst, Nos
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Unspecified	Back	Fibroma
Urinary bladder		Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_834

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
Pituitary gland		Angiectasis
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_835

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Para Aortic Body	Paraganglioma, Nos
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
Lymph node	Renal Lymph Node	Hemorrhage
	Iliac Lymph Node	Hyperplasia, Plasma Cell
Mammary gland		Fibroadenoma
Pancreas		Acinar-Cell Carcinoma
Parathyroid gland		Hyperplasia, Nos
Prostate		Hyperplasia, Epithelial
		Inflammation, Suppurative
Stomach	Submucosa	Edema, Nos
		Inflammation, Suppurative
		Ulcer, Acute
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Cystic Follicles
Unspecified	Leg	Fibroma
	Multiple Organs Nos	Pigmentation, Nos
Zymbal gland		Dilatation, Ducts

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_836

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain		Astrocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Preputial gland		Carcinoma, Nos
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified		Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_837

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Degeneration, Cystic
		Fibrosis
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lung		Hyperplasia, Alveolar Epithelium
Spleen		Fibrosis
		Hemosiderosis
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_838

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain	Cerebrum	Astrocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mediastinal Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_839

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Epididymis		Necrosis, Fat Steatitis
Eye		Cataract
Heart	Retina	Degeneration, Nos
Intestine Small	Myocardium Nos	Fibrosis
Kidney	Duodenum	Signet Ring Carcinoma
Liver		Inflammation, Chronic Degeneration, Cystic Hyperplasia, Nos Neoplastic Nodule
Lymph node	Bile Duct	Pigmentation, Nos
Pancreas	Mediastinal Lymph Node	Islet-Cell Carcinoma
Skin	Islets	Squamous Cell Carcinoma
Spleen	Lower Leg	Fibrosis Hemosiderosis
Testis	Tubule	Degeneration, Nos Interstitial-Cell Tumor Mineralization Hyperplasia, C Cell
Thyroid		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_840

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Pancreas		Atrophy, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
		Follicular-Cell Carcinoma
Unspecified	Back	Basal-Cell Carcinoma
	Back	Fibroma
	Adipose Tissue	Inflammation, Granulomatous

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_841

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Small	Mesentery Nos	Fibrosarcoma
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Fibrosarcoma, Metastatic
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Leukemia, Monocytic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Fibrosarcoma, Invasive

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_842

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Epididymis		Steatitis
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos
Mammary gland		Fibroadenoma
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_843

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Periportal

Inflammation, Chronic

Fibrosis

Testis

Hepatitis, Toxic

Thyroid

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Cystic Follicles

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_844

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
		Inflammation, Chronic
Lung		Hyperplasia, Alveolar Epithelium
		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
		Mineralization
Thyroid		C-Cell Adenoma
Unspecified		Necrosis, Fat
		Steatitis

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_845

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Cystic
	Medulla	Hyperplasia, Focal
Blood vessel	Aorta Nos	Mineralization
Eye		Cataract
	Retina	Degeneration, Nos
		Inflammation, Suppurative
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Interstitial
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Cyst, Nos
		Fibrosis, Focal
		Hemorrhage
Prostate		Abscess, Nos
Spleen		Fibrosis
		Hemosiderosis
Testis		Interstitial-Cell Tumor
Unspecified	Back	Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_846

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
Lung		Inflammation, Chronic
		Inflammation, Interstitial
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Prostate		Hyperplasia, Focal
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_847

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma
Eye	Retina	Cataract Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos Inflammation, Chronic
Liver		Focal Cellular Change Inflammation, Granulomatous Focal
Lung		Fibrous Histiocytoma, Metastatic
Lymph node	Mediastinal Lymph Node	Fibrous Histiocytoma, Metastatic
Pancreas		Acinar-Cell Adenoma
Spleen		Hemosiderosis
Stomach	Submucosa	Edema, Nos Ulcer, Acute
Testis		Interstitial-Cell Tumor
Unspecified	Leg	Fibroma
	Leg	Fibrous Histiocytoma, Malignant

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_848

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Lung		Inflammation, Chronic
Prostate		Abscess, Nos
Testis		Hyperplasia, Interstitial Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_849

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney

Pheochromocytoma

Cast, Nos

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Nos

Lung

Inflammation, Chronic

Lymph node

Mandibular Lymph Node

Hyperplasia, Lymphoid

Testis

Interstitial-Cell Tumor

Unspecified

Nose

Hyperkeratosis

Nose

Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_850

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Pancreas

Prostate

Spleen

Testis

Unspecified

Myocardium Nos

Islets

Leg

Abdominal Cavity

Abdominal Cavity

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Islet-Cell Adenoma

Hyperplasia, Focal

Hematopoiesis

Interstitial-Cell Tumor

Fibroma

Necrosis, Fat

Steatitis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_851

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney

Cortex Nos
Myocardium Nos
Cecum, Colon

Hyperplasia, Focal
Fibrosis
Parasitism
Cast, Nos
Inflammation, Chronic
Hepatitis, Toxic
Lymphangiectasis
Fibrosis
Interstitial-Cell Tumor
Leukemia, Monocytic

Liver
Lymph node
Spleen
Testis
Unspecified

Mediastinal Lymph Node

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_852

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Kidney		Cast, Nos
Liver		Degeneration, Cystic
	Hepatic Sinusoid	Leukocytosis, Nos
Lung		Liposarcoma, Metastatic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell
	Iliac Lymph Node	Lymphangiectasis
	Mandibular Lymph Node	Lymphangiectasis
Mammary gland		Galactocele
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Preputial gland		Abscess, Chronic
Prostate		Inflammation, Suppurative
Skin		Fibrosarcoma
Spleen		Hemosiderosis
Stomach		Inflammation, Acute/Chronic
		Ulcer, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Inflammation, Chronic
Urinary bladder		Hyperplasia, Epithelial
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_853

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Inflammation, Chronic

Liver

Pigmentation, Nos

Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Lung

Metamorphosis, Fatty

Inflammation, Chronic

Lymph node

Mediastinal Lymph Node

Pigmentation, Nos

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

Unspecified

Neck

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_854

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Myocardium Nos

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Hepatitis, Toxic

Inflammation, Chronic

Liver

Lung

Lymph node

Skin

Testis

Mandibular Lymph Node

Hemorrhage

Sebaceous Adenocarcinoma

Degeneration, Nos

Interstitial-Cell Tumor

Mineralization

Thyroid

Unspecified

Multiple Organs Nos

C-Cell Carcinoma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_855

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Accidentally Killed

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Pituitary gland		Adenoma, Nos
Skin	Flank	Keratoacanthoma
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_856

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Hyperplasia, Nos
Prostate		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Axilla	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_857

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large

Cortex Nos
Myocardium Nos
Cecum, Colon
Cecum, Colon

Kidney

Metamorphosis, Fatty
Fibrosis
Hemorrhage
Inflammation, Suppurative
Cast, Nos
Inflammation, Chronic
Pigmentation, Nos
Hepatitis, Toxic
Inflammation, Suppurative
Atrophy, Nos
Adenoma, Nos
Inflammation, Acute/Chronic
Mineralization
Ulcer, Acute
Interstitial-Cell Tumor
Fibroma
Leukemia, Monocytic

Liver
Lung
Pancreas
Pituitary gland
Prostate
Stomach

Testis
Unspecified

Back
Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_858

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney

Cortical Adenoma
Cast, Nos
Inflammation, Chronic
Degeneration, Cystic
Focal Cellular Change

Liver

Inflammation, Chronic

Lung

Atrophy, Nos

Pancreas

Hyperplasia, Nos

Parathyroid gland

Adenoma, Nos

Pituitary gland

Inflammation, Suppurative

Prostate

Fibrosis, Focal

Spleen

Acanthosis

Stomach

Inflammation, Acute/Chronic

Testis

Ulcer, Chronic

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_859

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large
Kidney

Descending, Colon

Adenomatous Polyp, Nos
Cast, Nos

Lung
Prostate

Inflammation, Chronic
Pigmentation, Nos

Inflammation, Chronic

Hyperplasia, Focal

Skin

Mouth

Inflammation, Acute/Chronic

Squamous Cell Papilloma

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

Unspecified

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_860

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Colon	Parasitism
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Focal Cellular Change
		Hepatitis, Toxic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mesenteric Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_861

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney

Medulla

Hyperplasia, Focal
Cast, Nos
Cyst, Nos
Inflammation, Chronic
Pigmentation, Nos

Liver
Lymph node
Mammary gland
Parathyroid gland
Pituitary gland
Prostate
Stomach

Mandibular Lymph Node

Focal Cellular Change
Lymphangiectasis
Fibroadenoma
Hyperplasia, Nos
Adenoma, Nos
Hyperplasia, Epithelial
Acanthosis

Submucosa

Edema, Nos
Inflammation, Acute
Ulcer, Acute
Degeneration, Nos
Interstitial-Cell Tumor
Mineralization

Testis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_862

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Liposarcoma, Invasive

Lymph node

Axillary Lymph Node

Liposarcoma, Metastatic

Testis

Hemorrhage

Unspecified

Abdominal Cavity

Degeneration, Nos

Zymbal gland

Interstitial-Cell Tumor

Liposarcoma

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_863

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Intestine Large	Cecum, Colon	Edema, Nos
	Submucosa, Colon	Edema, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Focal Cellular Change
Lung		Inflammation, Chronic
Pancreas		Atrophy, Nos
Pituitary gland		Adenoma, Nos
Preputial gland		Abscess, Nos
Prostate		Hyperplasia, Epithelial
Spleen	Capsule	Fibrosis
		Fibrosis
Stomach		Acanthosis
	Submucosa	Edema, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_864

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Small
Kidney

Cortex Nos
Myocardium Nos
Jejunum

Hyperplasia, Focal
Fibrosis
Leiomyosarcoma
Cast, Nos
Cyst, Nos
Inflammation, Chronic
Lymphangiectasis
Hyperplasia, Nos
Hyperplasia, Focal
Fibrosis
Interstitial-Cell Tumor
C-Cell Adenoma
Follicular-Cell Adenoma
Leukemia, Monocytic

Lymph node
Parathyroid gland
Pituitary gland
Spleen
Testis
Thyroid

Mesenteric Lymph Node

Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_865

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Blood vessel	Sup.Panc-Duod.Artery	Thrombus, Organized
Eye		Cataract
	Retina	Degeneration, Nos
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Mammary gland		Fibroadenoma
Prostate		Adenoma, Nos
		Inflammation, Suppurative
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_866

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Mineralization
Liver		Degeneration, Cystic
		Focal Cellular Change
Lymph node	Mandibular Lymph Node	Lymphangiectasis
	Axillary Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Prostate		Hyperplasia, Epithelial
Spleen		Hemosiderosis
Stomach		Acanthosis
		Inflammation, Acute Focal
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Hemorrhage
	Multiple Organs Nos	Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_867

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Lung

Congestion, Nos

Salivary gland

Inflammation, Chronic

Inflammation, Acute/Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_868

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Heart

Myocardium Nos

Inflammation, Chronic

Kidney

Cast, Nos

Inflammation, Chronic

Liver

Angiectasis

Degeneration, Cystic

Mammary gland

Hyperplasia, Nos

Prostate

Hyperplasia, Nos

Testis

Inflammation, Suppurative

Thyroid

Interstitial-Cell Tumor

Tongue

Cystic Follicles

Unspecified

Squamous Cell Papilloma

Back

Fibroma

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_869

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney

Lymph node
Pancreas

Preputial gland

Prostate

Testis

Thyroid

Zymbal gland

Mandibular Lymph Node

Pheochromocytoma
Cast, Nos
Inflammation, Chronic
Lymphangiectasis
Acinar-Cell Adenoma
Atrophy, Nos
Carcinoma, Nos
Inflammation, Acute/Chronic
Interstitial-Cell Tumor
Hyperplasia, C Cell
Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_870

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell
Pancreas		Atrophy, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_871

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney
Liver
Prostate
Salivary gland
Testis

Cast, Nos
Neoplastic Nodule
Inflammation, Suppurative
Inflammation, Chronic
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_872

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Colon	Parasitism
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lung	Alveoli	Histiocytosis
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas	Islets	Islet-Cell Carcinoma
Pituitary gland		Cholesterol Deposit
Spleen		Hemangiosarcoma
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Malignant
Thyroid		Follicular-Cell Adenoma
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_873

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Lung		Inflammation, Interstitial
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mediastinal Lymph Node	Pigmentation, Nos
Mammary gland		Dilatation, Ducts
		Hyperplasia, Nos
Pancreas		Atrophy, Nos
Prostate		Inflammation, Suppurative
Skin	Ear	Squamous Cell Papilloma
Spleen		Hemosiderosis
Stomach		Degeneration, Nos
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Adipose Tissue	Hemorrhage
	Adipose Tissue	Inflammation, Chronic
	Multiple Organs Nos	Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_874

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Inflammation, Chronic

Mixed Tumor, Malignant

Pigmentation, Nos

Lymph node

Lymphangiectasis

Pigmentation, Nos

Mediastinal Lymph Node

Carcinoma, Nos

Prostate

Spleen

Hemosiderosis

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_875

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lung

Testis

Myocardium Nos

Bile Duct

Pheochromocytoma, Malignant

Fibrosis

Cast, Nos

Inflammation, Chronic

Hyperplasia, Nos

Inflammation, Chronic

Pheochromocytoma, Metastatic

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_876

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Liver

Lung

Lymph node

Testis

Thymus

Thyroid

Medulla

Myocardium Nos

Myocardium Nos

Mandibular Lymph Node

Angiectasis

Hyperplasia, Focal

Inflammation, Chronic

Thrombus, Fibrin

Focal Cellular Change

Congestion, Nos

Inflammation, Chronic

Hyperplasia, Lymphoid

Interstitial-Cell Tumor

Congestion, Nos

C-Cell Carcinoma

Cystic Follicles

Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_877

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Small	Jejunum	Leiomyosarcoma
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
	Periportal	Fibrosis
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Pancreas	Islets	Islet-Cell Carcinoma
Preputial gland		Carcinoma, Nos
Stomach		Inflammation, Acute/Chronic
		Ulcer, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Back	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_878

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye

Retina

Cataract

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Fibrosis

Liver

Cast, Nos

Lymph node

Mesenteric Lymph Node

Inflammation, Chronic

Prostate

Hepatocellular Carcinoma

Skin

Lymphangiectasis

Testis

Inflammation, Acute/Chronic

Thyroid

Keratoacanthoma

Unspecified

Interstitial-Cell Tumor

Follicular-Cell Carcinoma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_879

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute
Stomach	Submucosa	Edema, Nos
		Inflammation, Acute
		Ulcer, Acute
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_880

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
Prostate		Inflammation, Acute/Chronic
Skin		Basal-Cell Tumor
	Nose	Squamous Cell Papilloma
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_881

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma
Bone	Sternum Sternum	Fibrosis, Myelo Hyperostosis
Eye	Retina	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Fibrosis Cast, Nos Inflammation, Chronic
Liver		Hepatitis, Toxic Hyperplasia, Nos
Pancreas	Bile Duct	Atrophy, Nos
Stomach		Acanthosis Edema, Nos
Testis	Submucosa	Interstitial-Cell Tumor
Unspecified	Axilla Multiple Organs Nos	Fibroma Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_882

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
		Necrosis, Coagulative
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Suppurative
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Back	Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_883

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Lung		Congestion, Nos
		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_884

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Prostate

Inflammation, Acute/Chronic

Testis

Interstitial-Cell Tumor

Unspecified

Tunica Vaginalis

Mesothelioma, Malignant

Multiple Organs Nos

Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_885

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
	Periportal	Fibrosis
		Focal Cellular Change
Lung		Adenocarcinoma, Nos, Metastatic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Hyperplasia, Reticulum Cell
	Mesenteric Lymph Node	Lymphangiectasis
Mammary gland		Adenocarcinoma, Nos
		Fibroadenoma
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Spleen		Fibrosis, Focal
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_886

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Eye		Cataract
	Retina	Degeneration, Nos
		Inflammation, Suppurative
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Focal Cellular Change
Lung		Leukocytosis, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Head	Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_887

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Fibrosis

Kidney

Cast, Nos

Inflammation, Chronic

Pigmentation, Nos

Liver

Hepatitis, Toxic

Lung

Inflammation, Chronic

Pancreas

Atrophy, Nos

Pituitary gland

Angiectasis

Testis

Interstitial-Cell Tumor

Mineralization

Thyroid

C-Cell Carcinoma

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

Zymbal gland

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_888

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Eye

Cortex Nos

Hypertrophy, Focal
Cataract

Retina

Degeneration, Nos
Inflammation, Suppurative

Heart
Liver

Myocardium Nos

Fibrosis
Degeneration, Cystic
Inflammation, Chronic

Lung
Lymph node

Mandibular Lymph Node
Mediastinal Lymph Node
Mandibular Lymph Node

Inflammation, Chronic
Hyperplasia, Plasma Cell
Hyperplasia, Plasma Cell
Lymphangiectasis
Inflammation, Acute/Chronic
Interstitial-Cell Tumor

Prostate
Testis
Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_889

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Lung

Pancreas

Spleen

Testis

Myocardium Nos

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Inflammation, Chronic

Atrophy, Nos

Hemosiderosis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_890

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Hyperplasia, Alveolar Epithelium
		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell
	Mediastinal Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Pituitary gland		Cyst, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Back	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_891

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Metamorphosis, Fatty
		Neoplastic Nodule
Pituitary gland		Adenoma, Nos
Prostate		Hyperplasia, Epithelial
		Inflammation, Suppurative
Skin		Squamous Cell Papilloma
Spleen		Hemosiderosis
Stomach		Acanthosis
	Submucosa	Edema, Nos
		Inflammation, Acute
Testis		Ulcer, Acute
Thyroid		Interstitial-Cell Tumor
		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_892

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Mineralization
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
Lung		Alveolar/Bronchiolar Carcinoma
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Parathyroid gland		Hyperplasia, Nos
Prostate		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma
Urinary bladder		Edema, Nos
		Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_893

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
	Bile Duct	Hyperplasia, Nos
Oral mucosa	Palate	Keratoacanthoma
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos
Thyroid		C-Cell Carcinoma
Tongue		Acanthosis
		Hyperkeratosis
Unspecified	Back	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_894

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Fibrosis
		Focal Cellular Change
		Pigmentation, Nos
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
	Pancreatic Lymph Node	Pigmentation, Nos
Mammary gland		Fibroadenoma
Pancreas		Acinar-Cell Adenoma
		Atrophy, Nos
Prostate		Hyperplasia, Epithelial
		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_895

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
		Pheochromocytoma, Malignant
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Metamorphosis, Fatty
Lung		Pheochromocytoma, Metastatic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Mammary gland		Hyperplasia, Nos
Pancreas		Atrophy, Nos
Parathyroid gland		Hyperplasia, Nos
Preputial gland		Hyperplasia, Epithelial
		Inflammation, Suppurative
Prostate		Hyperplasia, Epithelial
Spleen		Hemosiderosis
Stomach	Submucosa	Edema, Nos
		Inflammation, Acute/Chronic
Testis		Ulcer, Perforated
Thyroid		Interstitial-Cell Tumor
		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_896

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Focal Cellular Change
Lung		Alveolar/Bronchiolar Adenoma
	Alveoli	Histiocytosis
		Hyperplasia, Alveolar Epithelium
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Pancreas		Atrophy, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Axilla	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_897

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Cortex Nos
Myocardium Nos

Metamorphosis, Fatty
Fibrosis
Cast, Nos
Inflammation, Chronic
Focal Cellular Change
Metamorphosis, Fatty
Alveolar/Bronchiolar Adenoma
Hyperplasia, Plasma Cell
Lymphangiectasis
Carcinosarcoma
Adenoma, Nos
Keratoacanthoma
Interstitial-Cell Tumor
C-Cell Carcinoma

Liver

Lung
Lymph node

Mandibular Lymph Node
Mesenteric Lymph Node

Mammary gland
Pituitary gland
Skin
Testis
Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_898

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Eye

Medulla

Hyperplasia, Focal
Cataract

Heart
Intestine Large
Kidney

Retina
Myocardium Nos
Descending, Colon

Degeneration, Nos
Fibrosis
Adenomatous Polyp, Nos
Cast, Nos

Lymph node

Mediastinal Lymph Node
Mediastinal Lymph Node

Inflammation, Chronic
Pigmentation, Nos
Hemorrhage

Pituitary gland
Preputial gland
Prostate
Testis

Pigmentation, Nos
Adenoma, Nos
Squamous Cell Carcinoma
Inflammation, Acute/Chronic
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_899

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Lung

Spleen

Testis

Pheochromocytoma

Cast, Nos

Inflammation, Chronic

Congestion, Nos

Inflammation, Chronic

Hemosiderosis

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_900

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Kidney

Colon

Lung

Lymph node

Mediastinal Lymph Node
Mesenteric Lymph Node
Mediastinal Lymph Node

Spleen

Testis

Thyroid

Angiectasis
Parasitism
Cast, Nos
Inflammation, Chronic
Congestion, Nos
Inflammation, Chronic
Hemorrhage
Hyperplasia, Reticulum Cell
Pigmentation, Nos
Hemosiderosis
Interstitial-Cell Tumor
C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_901

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart
Intestine Large
Kidney

Myocardium Nos
Colon

Fibrosis
Parasitism
Inflammation, Chronic
Mineralization

Liver
Lymph node
Mammary gland
Pituitary gland
Testis

Mesenteric Lymph Node

Metamorphosis, Fatty
Pigmentation, Nos
Fibroadenoma
Hyperplasia, Focal
Degeneration, Nos
Interstitial-Cell Tumor
Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_902

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Cyst, Nos
Prostate		Inflammation, Suppurative
Spleen		Hematopoiesis
Stomach		Necrosis, Focal
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_903

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Liver		Inflammation, Chronic Metamorphosis, Fatty
Lung		Inflammation, Chronic Inflammation, Interstitial
Lymph node	Mesenteric Lymph Node	Hemorrhage
	Pancreatic Lymph Node	Hemorrhage
	Renal Lymph Node	Inflammation, Acute
	Mandibular Lymph Node	Necrosis, Nos
	Renal Lymph Node	Necrosis, Nos
Spleen		Hematopoiesis
Unspecified	Multiple Organs Nos	Congestion, Nos
	Multiple Organs Nos	Inflammation, Acute/Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_904

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Bone	Skull	Hyperostosis
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
Liver		Hepatitis, Toxic
Pituitary gland		Adenoma, Nos
Prostate		Adenoma, Nos
		Inflammation, Suppurative
Stomach	Submucosa	Edema, Nos
		Ulcer, Acute
Testis		Interstitial-Cell Tumor
Unspecified	Back	Fibroma
	Multiple Organs Nos	Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_905

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
Lung		Inflammation, Chronic
		Inflammation, Granulomatous Focal
Lymph node	Mesenteric Lymph Node	Lymphangiectasis
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:42
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_906

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Mineralization Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos Inflammation, Chronic Pigmentation, Nos
Liver		Focal Cellular Change
Lymph node	Mandibular Lymph Node Mediastinal Lymph Node	Hyperplasia, Plasma Cell Pigmentation, Nos
Pancreas		Atrophy, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_907

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Epididymis
Heart
Intestine Large
Kidney

Myocardium Nos
Descending, Colon

Liver
Lymph node

Mediastinal Lymph Node
Mandibular Lymph Node
Mediastinal Lymph Node
Mediastinal Lymph Node

Prostate
Testis
Thyroid

Pheochromocytoma
Liposarcoma
Fibrosis
Adenomatous Polyp, Nos
Cast, Nos
Inflammation, Chronic
Focal Cellular Change
Hemorrhage
Hyperplasia, Plasma Cell
Lymphangiectasis
Pigmentation, Nos
Inflammation, Suppurative
Interstitial-Cell Tumor
C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_908

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Liver

Preputial gland

Spleen

Testis

Thyroid

Unspecified

Myocardium Nos

Bile Duct

Multiple Organs Nos

Pheochromocytoma

Fibrosis

Focal Cellular Change

Hyperplasia, Nos

Abscess, Nos

Fibrosis, Focal

Interstitial-Cell Tumor

Metaplasia, Squamous

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_909

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Pheochromocytoma

Cast, Nos

Cyst, Nos

Inflammation, Chronic

Inflammation, Chronic

Lung

Pancreas

Prostate

Atrophy, Nos

Testis

Thyroid

Inflammation, Suppurative

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:42

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_910

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Eye

Cataract

Retina

Degeneration, Nos

Kidney

Cast, Nos

Inflammation, Chronic

Liver

Hepatocellular Carcinoma

Bile Duct

Hyperplasia, Nos

Inflammation, Chronic

Pancreas

Islets

Metamorphosis, Fatty

Prostate

Hyperplasia, Focal

Spleen

Inflammation, Acute/Chronic

Testis

Hemosiderosis

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_911

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney
Liver
Lung
Pituitary gland
Testis
Urinary bladder

Cast, Nos
Cytoplasmic Vacuolization
Inflammation, Chronic
Adenoma, Nos
Interstitial-Cell Tumor
Transitional-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_912

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal Pheochromocytoma
Kidney		Cast, Nos Inflammation, Chronic Pigmentation, Nos
Liver		Degeneration, Cystic Focal Cellular Change
	Bile Duct	Hyperplasia, Nos Metamorphosis, Fatty
Lymph node	Mandibular Lymph Node Pancreatic Lymph Node	Hyperplasia, Plasma Cell Pigmentation, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Axilla	Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_913

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Oral mucosa	Oral Cavity	Squamous Cell Carcinoma
Pancreas		Atrophy, Nos
	Acinus	Hyperplasia, Nos
Prostate		Inflammation, Acute Focal
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_914

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver	Periportal	Fibrosis
		Pigmentation, Nos
Lung		Inflammation, Interstitial
Lymph node	Pancreatic Lymph Node	Pigmentation, Nos
Pancreas	Islets	Islet-Cell Carcinoma
Pituitary gland		Fibrosis
		Hemosiderosis
Prostate		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Back	Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_915

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney
Lung
Pituitary gland
Spleen
Stomach

Cast, Nos
Inflammation, Chronic
Adenoma, Nos
Hemosiderosis
Acanthosis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_916

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
		Pigmentation, Nos
Liver		Focal Cellular Change
		Hepatocellular Carcinoma
		Megakaryocytosis
Lung	Alveoli	Histiocytosis
		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Lymphangiectasis
	Pancreatic Lymph Node	Pigmentation, Nos
Pancreas	Islets	Islet-Cell Carcinoma
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Zymbal gland		Inflammation, Granulomatous

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_917

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis Inflammation, Fibrinous
Intestine Large	Colon	Parasitism
Kidney		Cast, Nos Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
	Hepatic Sinusoid	Leukocytosis, Nos Mesothelioma, Nos
Lung		Hemorrhage
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
	Mediastinal Lymph Node	Sebaceous Adenoma
Skin		Fibrosis
Spleen		Interstitial-Cell Tumor
Testis		C-Cell Carcinoma
Thyroid		Lipoma
Unspecified	Flank	Mesothelioma, Nos
	Mediastinum Nos	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_918

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Lymph node

Pancreas

Testis

Thyroid

Mesenteric Lymph Node

Cast, Nos

Lymphangiectasis

Atrophy, Nos

Interstitial-Cell Tumor

Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_919

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Mammary gland		Fibroadenoma
Oral mucosa	Mouth Nos	Abscess, Nos
Pancreas	Islets	Islet-Cell Carcinoma
Salivary gland		Inflammation, Chronic
Skin		Basal-Cell Carcinoma
	Back	Keratoacanthoma
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_920

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Intestine Large	Cecum, Colon	Edema, Nos
Intestine Small	Mesentery Nos	Lipoma
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Focal Cellular Change
		Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Nos
		Thrombus, Fibrin
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
	Pancreatic Lymph Node	Pigmentation, Nos
Mammary gland		Fibroadenoma
Pancreas	Islets	Islet-Cell Carcinoma
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Hypertrophy, Focal
Skin		Keratoacanthoma
Spleen		Hemosiderosis
Stomach	Submucosa	Edema, Nos
		Inflammation, Acute
		Necrosis, Focal
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_921

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Epididymis		Necrosis, Fat Steatitis
Kidney		Cast, Nos Inflammation, Chronic
Liver		Degeneration, Cystic Neoplastic Nodule
Lung		Hyperplasia, Alveolar Epithelium Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Hematopoiesis
Testis		Degeneration, Nos Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Adipose Tissue	Mixed Mesenchymal Tumor, Malignant

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_922

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Cortex Nos
Myocardium Nos

Metamorphosis, Fatty
Fibrosis
Cast, Nos
Inflammation, Chronic
Degeneration, Cystic
Hyperplasia, Alveolar Epithelium
Atrophy, Nos
Hyperplasia, Nos
Inflammation, Suppurative
Keratoacanthoma
Fibrosis
Hemosiderosis
Edema, Nos
Inflammation, Acute
Ulcer, Acute
Interstitial-Cell Tumor
C-Cell Carcinoma

Liver
Lung
Pancreas
Parathyroid gland
Prostate
Skin
Spleen

Stomach

Submucosa

Testis
Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_923

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Medulla
Myocardium Nos

Pheochromocytoma
Fibrosis
Cast, Nos
Inflammation, Chronic
Pigmentation, Nos
Alveolar/Bronchiolar Adenoma
Inflammation, Chronic
Hyperplasia, Lymphoid
Acinar-Cell Adenoma
Adenoma, Nos
Hematopoiesis
Interstitial-Cell Tumor
Mesothelioma, Malignant
Mesothelioma, Metastatic

Lung

Lymph node
Pancreas
Pituitary gland
Spleen
Testis

Mandibular Lymph Node

Unspecified

Tunica Vaginalis
Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_924

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Intestine Small	Duodenum	Leiomyoma
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
		Tubular Adenocarcinoma
Liver	Periportal	Fibrosis
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Prostate		Hyperplasia, Epithelial
		Inflammation, Suppurative
Stomach		Inflammation, Acute/Chronic
		Ulcer, Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Back	Fibroma
	Abdominal Cavity	Necrosis, Fat
	Abdominal Cavity	Steatitis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_925

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart
Pituitary gland
Testis
Unspecified
Urinary bladder

Myocardium Nos

Multiple Organs Nos

Fibrosis
Hypertrophy, Focal
Interstitial-Cell Tumor
Leukemia, Myelomonocytic
Inflammation, Granulomatous
Polyp, Inflammatory

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_926

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
		Neoplastic Nodule
Lung	Alveoli	Edema, Nos
		Necrosis, Focal
Lymph node	Mediastinal Lymph Node	Necrosis, Nos
Mammary gland		Dilatation, Ducts
		Hemorrhage
Pancreas		Atrophy, Nos
Stomach	Submucosa	Edema, Nos
		Inflammation, Acute
		Ulcer, Acute
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_927

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell
	Mesenteric Lymph Node	Pigmentation, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Axilla	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_928

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large
Kidney

Colon

Parasitism
Cast, Nos
Inflammation, Chronic
Inflammation, Chronic
Fibrosarcoma
Hemosiderosis
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

Lung
Salivary gland
Spleen
Testis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_929

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Pancreas		Atrophy, Nos
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_930

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Focal Cellular Change
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Mammary gland		Galactocele
		Inflammation, Chronic
Pituitary gland		Adenoma, Nos
Prostate		Hyperplasia, Epithelial
		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Flank	Fibroma
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_931

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lymph node

Pituitary gland

Prostate

Testis

Thyroid

Unspecified

Myocardium Nos

Mediastinal Lymph Node

Multiple Organs Nos

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Focal Cellular Change

Pigmentation, Nos

Angiectasis

Hypertrophy, Focal

Inflammation, Acute/Chronic

Interstitial-Cell Tumor

C-Cell Adenoma

C-Cell Carcinoma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_932

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Inflammation, Chronic

Lung

Hepatitis, Toxic

Pituitary gland

Inflammation, Chronic

Testis

Adenoma, Nos

Unspecified

Multiple Organs Nos

Hyperplasia, Interstitial Cell

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_933

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Cortex Nos

Metamorphosis, Fatty

Kidney

Myocardium Nos

Fibrosis

Lung

Cast, Nos

Pancreas

Inflammation, Chronic

Pituitary gland

Inflammation, Chronic

Preputial gland

Atrophy, Nos

Prostate

Adenoma, Nos

Skin

Carcinoma, Nos

Testis

Inflammation, Acute/Chronic

Thyroid

Keratoacanthoma

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_934

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Lymphangiectasis
Pancreas		Atrophy, Nos
Parathyroid gland		Hyperplasia, Nos
Prostate		Hyperplasia, Epithelial
Spleen		Fibrosis
Stomach	Submucosa	Edema, Nos
		Mineralization
		Necrosis, Focal
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_935

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos Cortex Nos	Degeneration, Cystic Metamorphosis, Fatty Pheochromocytoma
Eye		Cataract
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos Inflammation, Chronic Pigmentation, Nos
Liver		Angiectasis Focal Cellular Change Inflammation, Acute Focal
Lung	Alveoli	Histiocytosis
Lymph node	Mandibular Lymph Node Mandibular Lymph Node	Hyperplasia, Reticulum Cell Pigmentation, Nos
Mammary gland		Adenoma, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Stomach	Submucosa	Acanthosis Edema, Nos Inflammation, Acute/Chronic
Testis		Ulcer, Chronic
Thyroid		Interstitial-Cell Tumor C-Cell Adenoma

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_936

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Myocardium Nos

Pheochromocytoma

Fibrosis

Cast, Nos

Cyst, Nos

Inflammation, Chronic

Pigmentation, Nos

Lung

Alveoli

Histiocytosis

Inflammation, Chronic

Lymph node

Mandibular Lymph Node

Hyperplasia, Plasma Cell

Parathyroid gland

Hyperplasia, Nos

Pituitary gland

Carcinoma, Nos

Stomach

Degeneration, Nos

Testis

Mineralization

Thyroid

Interstitial-Cell Tumor

C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_937

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
Lung		Inflammation, Chronic
Spleen		Ectopia
		Hemosiderosis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_938

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Pheochromocytoma

Brain

Carcinoma, Nos, Invasive

Ventricle

Dilatation, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Cast, Nos

Inflammation, Chronic

Lymph node

Mandibular Lymph Node

Hyperplasia, Plasma Cell

Pituitary gland

Carcinoma, Nos

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

Unspecified

Flank

Fibroma

Urinary bladder

Transitional-Cell Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_939

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Fibrosis

Kidney

Cast, Nos

Inflammation, Chronic

Pigmentation, Nos

Liver

Bile Duct

Hyperplasia, Nos

Lymph node

Mandibular Lymph Node

Lymphangiectasis

Mediastinal Lymph Node

Pigmentation, Nos

Parathyroid gland

Adenoma, Nos

Prostate

Adenoma, Nos

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_940

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Prostate		Hyperplasia, Focal
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_941

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Hyperplasia, Lymphoid
	Mesenteric Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Unspecified		Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_942

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Inflammation, Chronic

Focal Cellular Change

Lymph node

Bile Duct

Hyperplasia, Nos

Pancreas

Mediastinal Lymph Node

Hemorrhage

Spleen

Mediastinal Lymph Node

Pigmentation, Nos

Testis

Acinar-Cell Adenoma

Thyroid

Hemangiosarcoma

Interstitial-Cell Tumor

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_943

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal Pheochromocytoma
Eye		Cataract
Heart	Myocardium Nos	Fibrosis
Intestine Large	Ascending Colon, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos Inflammation, Chronic Pigmentation, Nos
Lymph node	Mesenteric Lymph Node	Lymphangiectasis
Mammary gland		Galactocele
Pancreas	Islets	Islet-Cell Carcinoma
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Suppurative
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma
Unspecified	Multiple Organs Nos	Hyperplasia, C Cell Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_944

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Eye		Cataract
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
		Metamorphosis, Fatty
Lung		Inflammation, Acute/Chronic
		Inflammation, Interstitial
		Thrombus, Fibrin
Stomach		Acanthosis
	Submucosa	Edema, Nos
		Hemorrhage
		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_945

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mandibular Lymph Node	Inflammation, Acute
Salivary gland		Inflammation, Acute/Chronic
Spleen		Hemosiderosis
Unspecified	Multiple Organs Nos	Congestion, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_196

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lymph node

Pancreas

Pituitary gland

Skin

Testis

Thyroid

Myocardium Nos

Mandibular Lymph Node

Mediastinal Lymph Node

Pancreatic Lymph Node

Back

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Metamorphosis, Fatty

Hyperplasia, Plasma Cell

Pigmentation, Nos

Pigmentation, Nos

Acinar-Cell Adenoma

Adenoma, Nos

Neurofibrosarcoma

Interstitial-Cell Tumor

Mineralization

Hyperplasia, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_197

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
Lung		Squamous Cell Carcinoma, Metastatic
Skin		Squamous Cell Carcinoma
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_198

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Inflammation, Chronic

Prostate

Hepatitis, Toxic

Spleen

Hepatocellular Carcinoma

Testis

Inflammation, Acute/Chronic

Unspecified

Multiple Organs Nos

Fibrosis, Focal

Zymbal gland

Interstitial-Cell Tumor

Leukemia, Monocytic

Abscess, Nos

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_199

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Inflammation, Chronic

Degeneration, Cystic

Focal Cellular Change

Hepatitis, Toxic

Neoplastic Nodule

Lymph node

Mandibular Lymph Node

Hyperplasia, Plasma Cell

Mediastinal Lymph Node

Hyperplasia, Reticulum Cell

Mandibular Lymph Node

Lymphangiectasis

Mediastinal Lymph Node

Pigmentation, Nos

Pancreas

Atrophy, Nos

Pituitary gland

Adenoma, Nos

Prostate

Hyperplasia, Focal

Testis

Inflammation, Acute/Chronic

Thyroid

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Hyperplasia, C Cell

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_200

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis

Liver

Focal Cellular Change

Lung

Inflammation, Chronic

Lymph node

Mandibular Lymph Node

Hyperplasia, Plasma Cell

Testis

Interstitial-Cell Tumor

Thyroid

Follicular-Cell Adenoma

Unspecified

Multiple Organs Nos

Hyperplasia, C Cell

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_201

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
		Necrosis, Coagulative
		Neoplastic Nodule
Pancreas		Acinar-Cell Adenoma
		Atrophy, Nos
Preputial gland		Carcinoma, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Hematopoiesis
Stomach		Inflammation, Chronic
		Ulcer, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_202

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Cortex Nos
Myocardium Nos

Metamorphosis, Fatty
Fibrosis
Cast, Nos
Inflammation, Chronic
Pigmentation, Nos
Islet-Cell Carcinoma
Keratoacanthoma
Interstitial-Cell Tumor
C-Cell Adenoma
Cystic Follicles
Leukemia, Monocytic

Lymph node
Pancreas
Skin
Testis
Thyroid

Pancreatic Lymph Node
Islets
Back

Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_203

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Hemorrhage
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
		Pigmentation, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Prostate		Inflammation, Acute/Chronic
Stomach		Acanthosis
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_204

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Kidney

Descending, Colon

Liver

Pheochromocytoma
Adenomatous Polyp, Nos
Cast, Nos
Inflammation, Chronic
Angiectasis
Degeneration, Cystic
Focal Cellular Change

Pituitary gland
Preputial gland

Cyst, Nos
Carcinoma, Nos

Skin
Stomach

Back

Sebaceous Adenoma
Hyperkeratosis

Testis

Interstitial-Cell Tumor

Thyroid

Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_205

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Fibrosis

Liver

Hepatitis, Toxic

Stomach

Submucosa

Hemorrhage

Testis

Hyperkeratosis

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_206

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Cecum, Colon	Ulcer, Acute
Kidney		Cast, Nos
Liver		Hepatitis, Toxic
Stomach		Acanthosis
	Submucosa	Edema, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Lymphoma, Histiocytic-Malignant Type
Zymbal gland		Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_207

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Lung

Carcinosarcoma, Metastatic

Mammary gland

Galactocele

Prostate

Inflammation, Acute/Chronic

Spleen

Hematopoiesis

Zymbal gland

Hemosiderosis

Carcinosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_208

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Inflammation, Chronic

Lung

Focal Cellular Change

Pancreas

Inflammation, Chronic

Prostate

Acinar-Cell Adenoma

Testis

Hyperplasia, Nos

Thyroid

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Hyperplasia, C Cell

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_209

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Lymphoma, Histiocytic-Malignant Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_210

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Epididymis

Necrosis, Fat

Heart

Myocardium Nos

Steatitis

Lung

Fibrosis

Testis

Inflammation, Chronic

Hyperplasia, Interstitial Cell

Zymbal gland

Interstitial-Cell Tumor

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_211

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Heart

Myocardium Nos

Fibrosis

Kidney

Cast, Nos

Inflammation, Chronic

Liver

Metamorphosis, Fatty

Testis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_212

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney

Myocardium Nos
Descending, Colon

Pheochromocytoma
Fibrosis
Adenomatous Polyp, Nos
Cast, Nos
Inflammation, Chronic
Hepatitis, Toxic
Hemorrhage
Hyperplasia, Plasma Cell
Fibrosis
Interstitial-Cell Tumor
C-Cell Adenoma
Leukemia, Monocytic

Liver
Lymph node

Mandibular Lymph Node
Mandibular Lymph Node

Spleen
Testis
Thyroid
Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_213

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Hepatocellular Carcinoma
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Periarteritis
Prostate		Adenoma, Nos
		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_214

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mediastinal Lymph Node	Pigmentation, Nos
Mammary gland		Hyperplasia, Nos
Pancreas		Acinar-Cell Adenoma
		Atrophy, Nos
Pituitary gland		Angiectasis
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_215

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Inflammation, Chronic

Pituitary gland

Adenoma, Nos

Stomach

Acanthosis

Submucosa

Edema, Nos

Testis

Inflammation, Acute/Chronic

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_216

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Pituitary gland

Prostate

Spleen

Testis

Myocardium Nos

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Degeneration, Cystic

Hepatocellular Carcinoma

Adenoma, Nos

Inflammation, Acute/Chronic

Hemosiderosis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_217

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Brain	Meninges	Inflammation, Suppurative
Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Inflammation, Chronic
Liver	Periportal	Fibrosis
		Inflammation, Acute
Lymph node	Mediastinal Lymph Node	Hemorrhage
Pancreas		Atrophy, Nos
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Unspecified	Diaphragm Nos	Hernia, Nos
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_218

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain		Hemorrhage
Kidney		Cast, Nos
Lung		Sarcoma, Nos, Metastatic
Stomach	Submucosa	Edema, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Neck	Sarcoma, Nos
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_219

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Hepatitis, Toxic
Lymph node	Pancreatic Lymph Node	Pigmentation, Nos
Skin		Keratoacanthoma
Testis		Interstitial-Cell Tumor
Unspecified	Thorax	Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_220

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
	Ascending Colon, Colon	Inflammation, Chronic
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
Lung		Inflammation, Suppurative
Lymph node	Mediastinal Lymph Node	Hyperplasia, Plasma Cell
Salivary gland		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_221

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Lymph node

Pancreas

Prostate

Testis

Zymbal gland

Mandibular Lymph Node

Cast, Nos

Hyperplasia, Plasma Cell

Atrophy, Nos

Inflammation, Acute/Chronic

Interstitial-Cell Tumor

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_222

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Cecum, Colon	Abscess, Chronic
	Cecum, Colon	Mucinous Cystadenocarcinoma
Lung		Inflammation, Chronic
Spleen		Hematopoiesis
Testis		Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_223

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Inflammation, Chronic

Lung

Focal Cellular Change

Lymph node

Inflammation, Chronic

Mediastinal Lymph Node

Inflammation, Chronic

Mandibular Lymph Node

Hemorrhage

Mediastinal Lymph Node

Hyperplasia, Plasma Cell

Testis

Pigmentation, Nos

Unspecified

Mouth

Interstitial-Cell Tumor

Axilla

Ameloblastic Odontoma

Lipoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_224

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Cortex Nos
Myocardium Nos

Metamorphosis, Fatty
Fibrosis
Cast, Nos
Inflammation, Chronic
Focal Cellular Change
Inflammation, Chronic
Adenoma, Nos
Hemosiderosis
Hyperkeratosis
Interstitial-Cell Tumor
Hyperplasia, C Cell
Cyst, Nos

Liver
Lung
Pituitary gland
Spleen
Stomach
Testis
Thyroid
Tongue

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_225

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Transverse Colon, Colon

Adenomatous Polyp, Nos

Kidney

Cast, Nos

Liver

Focal Cellular Change

Lung

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

Zymbal gland

Cystic Ducts

Inflammation, Acute

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_226

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lymph node

Pancreas

Prostate

Spleen

Testis

Thyroid

Unspecified

Myocardium Nos

Pancreatic Lymph Node

Neck

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Focal Cellular Change

Hyperplasia, Lymphoid

Acinar-Cell Adenoma

Inflammation, Acute/Chronic

Fibrosis

Hemosiderosis

Interstitial-Cell Tumor

C-Cell Carcinoma

Follicular-Cell Adenoma

Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_227

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Mucinous Cystadenocarcinoma

Intestine Small

Mesentery Nos

Mucinous Cystadenocarcinoma, Metastatic

Liver

Focal Cellular Change

Lung

Carcinoma, Nos, Metastatic

Lymph node

Mandibular Lymph Node

Carcinoma, Nos, Invasive

Salivary gland

Carcinoma, Nos

Spleen

Hematopoiesis

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_228

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney

Medulla
Myocardium Nos
Colon

Liver

Testis
Thyroid
Unspecified

Multiple Organs Nos

Hyperplasia, Focal
Fibrosis
Parasitism
Cast, Nos
Inflammation, Chronic
Focal Cellular Change
Hepatocellular Carcinoma
Interstitial-Cell Tumor
Hyperplasia, C Cell
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_229

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver		Hepatitis, Toxic
		Hepatocellular Carcinoma
Lymph node	Mandibular Lymph Node	Hemorrhage
Spleen		Infarct, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_230

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Lymph node

Mandibular Lymph Node

Inflammation, Chronic

Prostate

Hyperplasia, Plasma Cell

Testis

Inflammation, Acute/Chronic

Thyroid

Interstitial-Cell Tumor

Zymbal gland

Follicular-Cell Adenoma

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_231

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Intestine Large

Liver

Skin

Testis

Thyroid

Unspecified

Myocardium Nos

Ascending Colon, Colon

Bile Duct

Multiple Organs Nos

Pheochromocytoma

Fibrosis

Mucinous Cystadenocarcinoma

Hepatitis, Toxic

Hyperplasia, Nos

Keratoacanthoma

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

C-Cell Adenoma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_232

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Ascending Colon, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
Liver		Hepatitis, Toxic
Spleen		Infarct, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_233

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Small
Kidney

Duodenum

Adenocarcinoma, Nos
Inflammation, Chronic
Nephrosis, Hydro

Testis
Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor
Adenocarcinoma, Nos, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_234

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Liver

Lymph node

Salivary gland

Testis

Thyroid

Unspecified

Retina

Myocardium Nos

Mediastinal Lymph Node

Mandibular Lymph Node

Celiac Lymph Node

Mandibular Lymph Node

Mesenteric Lymph Node

Mediastinal Lymph Node

Flank

Pheochromocytoma

Cataract

Degeneration, Nos

Fibrosis

Cast, Nos

Inflammation, Chronic

Focal Cellular Change

Hemorrhage

Hyperplasia, Plasma Cell

Lymphangiectasis

Lymphangiectasis

Lymphangiectasis

Pigmentation, Nos

Inflammation, Chronic

Interstitial-Cell Tumor

Follicular-Cell Carcinoma

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_235

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma
Brain		Inflammation, Suppurative
Eye		Inflammation, Suppurative
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
Liver		Metamorphosis, Fatty
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Mammary gland		Fibroadenoma
Nasal cavity	Turbinate Nos	Squamous Cell Carcinoma, Invasive
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_236

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Lung

Inflammation, Chronic

Lymph node

Mandibular Lymph Node

Inflammation, Chronic

Pituitary gland

Mediastinal Lymph Node

Hyperplasia, Plasma Cell

Testis

Pigmentation, Nos

Thyroid

Angiectasis

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

C-Cell Carcinoma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_237

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Inflammation, Chronic

Lung

Hyperplasia, Alveolar Epithelium

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

Back

Rhabdomyosarcoma

Back

Squamous Cell Carcinoma

Zymbal gland

Dilatation, Ducts

Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_238

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Liver		Hepatitis, Toxic
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mesenteric Lymph Node	Pigmentation, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_239

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Pituitary gland		Angiectasis
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_240

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Large

Transverse Colon, Colon
Colon

Adenomatous Polyp, Nos
Parasitism

Kidney

Cast, Nos

Liver

Inflammation, Chronic

Focal Cellular Change

Lung

Liposarcoma

Inflammation, Chronic

Lymph node

Mediastinal Lymph Node

Hemorrhage

Mandibular Lymph Node

Hyperplasia, Plasma Cell

Mediastinal Lymph Node

Pigmentation, Nos

Testis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_241

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Sarcoma, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
Lung		Sarcoma, Nos, Metastatic
Lymph node	Mediastinal Lymph Node	Sarcoma, Nos, Metastatic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Sarcoma, Nos, Invasive

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_242

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mesenteric Lymph Node	Pigmentation, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Zymbal gland		Squamous Cell Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_243

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lung

Lymph node

Prostate

Salivary gland

Testis

Thyroid

Unspecified

Myocardium Nos

Mediastinal Lymph Node

Multiple Organs Nos

Cortical Adenoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Hepatitis, Toxic

Hyperplasia, Alveolar Epithelium

Pigmentation, Nos

Inflammation, Acute/Chronic

Cyst, Nos

Interstitial-Cell Tumor

C-Cell Carcinoma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_244

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Intestine Large	Ascending Colon, Colon	Mucinous Cystadenocarcinoma
Kidney		Cast, Nos
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hyperplasia, Plasma Cell
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_245

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large
Kidney
Lung
Spleen
Testis

Serosa, Colon

Mesothelioma, Metastatic
Cast, Nos
Inflammation, Chronic
Hematopoiesis
Interstitial-Cell Tumor

Unspecified

Tunica Vaginalis

Mesothelioma, Malignant

Adipose Tissue

Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_246

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Pancreatic Lymph Node	Pigmentation, Nos
Spleen		Hemosiderosis
Unspecified	Neck	Abscess, Nos
	Multiple Organs Nos	Congestion, Nos
Zymbal gland		Keratoacanthoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_247

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Mucinous Cystadenocarcinoma
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
		Hepatocellular Carcinoma
Lung		Inflammation, Chronic
Pancreas	Islets	Islet-Cell Carcinoma
Skin		Keratoacanthoma
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic
Urinary bladder		Transitional-Cell Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_248

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Liver

Lung

Prostate

Testis

Thyroid

Unspecified

Retina

Myocardium Nos

Multiple Organs Nos

Pheochromocytoma

Cataract

Degeneration, Nos

Fibrosis

Cast, Nos

Inflammation, Chronic

Degeneration, Cystic

Focal Cellular Change

Neoplastic Nodule

Inflammation, Chronic

Inflammation, Acute/Chronic

Interstitial-Cell Tumor

Hyperplasia, C Cell

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_249

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
		Metamorphosis, Fatty
Lymph node	Mesenteric Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas	Acinus	Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
		Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Back	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_250

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart
Intestine Large
Kidney

Myocardium Nos
Descending, Colon

Fibrosis
Adenomatous Polyp, Nos
Cast, Nos
Inflammation, Chronic
Hepatocellular Carcinoma
Hyperplasia, Plasma Cell
Fibroadenoma
Inflammation, Acute/Chronic
Interstitial-Cell Tumor
C-Cell Adenoma
C-Cell Carcinoma
Squamous Cell Papilloma

Liver
Lymph node
Mammary gland
Prostate
Testis
Thyroid

Mediastinal Lymph Node

Zymbal gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_251

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Angiectasis
		Degeneration, Cystic
		Focal Cellular Change
		Hepatitis, Toxic
Lymph node	Mediastinal Lymph Node	Hyperplasia, Plasma Cell
Pancreas		Periarteritis
Skin	Axilla	Cyst, Dermal Inclusion
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Hyperplasia, C Cell
Unspecified	Chest	Fibroma
	Diaphragm Nos	Hernia, Nos
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_252

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Kidney

Descending, Colon

Parasitism

Lymph node

Mesenteric Lymph Node

Cast, Nos

Prostate

Inflammation, Chronic

Testis

Hyperplasia, Reticulum Cell

Inflammation, Acute/Chronic

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_253

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Hyperplasia, Plasma Cell
Mammary gland		Fibroadenoma
Pancreas	Islets	Islet-Cell Adenoma
Spleen		Infarct, Nos
Stomach		Acanthosis
		Inflammation, Acute/Chronic
Testis		Ulcer, Chronic
Unspecified	Multiple Organs Nos	Interstitial-Cell Tumor
		Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_254

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large
Liver

Descending, Colon

Adenomatous Polyp, Nos
Focal Cellular Change
Neoplastic Nodule

Lung
Mammary gland
Testis

Inflammation, Chronic
Galactocele
Degeneration, Nos

Thyroid

Interstitial-Cell Tumor
Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_255

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Fibrosis

Kidney

Cast, Nos

Inflammation, Chronic

Parathyroid gland

Hyperplasia, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_256

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
Liver		Cyst, Multilocular
Lung		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_257

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Epididymis		Mesothelioma, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Hepatitis, Toxic
Skin	Lower Leg	Basal-Cell Tumor
Stomach		Acanthosis
		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos
Thyroid		Cystic Follicles
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_258

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Medulla
Myocardium Nos

Pheochromocytoma
Fibrosis
Cast, Nos
Cyst, Nos
Inflammation, Chronic
Degeneration, Cystic
Focal Cellular Change
Hepatocellular Carcinoma
Metamorphosis, Fatty
Hepatocellular Carcinoma, Metastatic
Lymphangiectasis
Lymphangiectasis
Adenoma, Nos
Hyperplasia, Nos
Inflammation, Acute/Chronic
Basal-Cell Tumor
Interstitial-Cell Tumor
Hyperplasia, C Cell

Liver

Lung
Lymph node

Mandibular Lymph Node
Mesenteric Lymph Node

Pituitary gland
Prostate

Skin
Testis
Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_259

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney

Cortex Nos

Metamorphosis, Fatty
Cast, Nos

Liver
Lymph node
Spleen

Mandibular Lymph Node

Inflammation, Chronic
Hepatitis, Toxic

Testis
Thyroid

Lymphangiectasis
Infarct, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor
Hyperplasia, C Cell
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_260

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Ascending Colon, Colon

Inflammation, Acute/Chronic

Liver

Ascending Colon, Colon

Ulcer, Chronic

Lung

Focal Cellular Change

Lymph node

Mediastinal Lymph Node

Hepatitis, Toxic

Pituitary gland

Metaplasia, Osseous

Testis

Lymphangiectasis

Unspecified

Multiple Organs Nos

Hyperplasia, Focal

Hyperplasia, Interstitial Cell

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_261

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lymph node

Pancreas

Prostate

Spleen

Stomach

Testis

Myocardium Nos

Mediastinal Lymph Node

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Metamorphosis, Fatty

Pigmentation, Nos

Periarteritis

Inflammation, Acute/Chronic

Hemosiderosis

Acanthosis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_262

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large
Kidney

Ascending Colon, Colon

Mucinous Cystadenocarcinoma
Cast, Nos

Liver

Periportal
Bile Duct

Inflammation, Chronic
Degeneration, Cystic

Lung
Lymph node

Mandibular Lymph Node
Pancreatic Lymph Node

Fibrosis
Hyperplasia, Nos
Inflammation, Chronic

Testis

Thyroid

Zymbal gland

Pigmentation, Nos
Interstitial-Cell Tumor
C-Cell Carcinoma
Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_263

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
Preputial gland		Carcinoma, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Diaphragm Nos	Hernia, Nos
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_264

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis

Intestine Large

Ascending Colon, Colon

Mucinous Cystadenocarcinoma

Lymph node

Ileocolic Lymph Node

Mucinous Cystadenocarcinoma, Metastatic

Mesenteric Lymph Node

Mucinous Cystadenocarcinoma, Metastatic

Spleen

Hemosiderosis

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma

Unspecified

Hip

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_265

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Bone	Mandible	Cyst, Periodontal
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
		Follicular-Cell Adenoma
Unspecified	Back	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_266

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
	Islets	Islet-Cell Adenoma
Pituitary gland		Adenoma, Nos
Prostate		Hyperplasia, Nos
		Inflammation, Acute/Chronic
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_267

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Colon	Parasitism
Intestine Small	Jejunum	Inflammation, Acute/Chronic
	Jejunum	Mucinous Cystadenocarcinoma
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
		Neoplastic Nodule
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Celiac Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Spleen		Fibrosis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified		Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_268

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Cecum, Colon

Mucinous Cystadenocarcinoma

Unspecified

Multiple Organs Nos

Mucinous Cystadenocarcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_269

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Cast, Nos
Liver		Degeneration, Cystic
	Bile Duct	Hyperplasia, Nos
		Hyperplasia, Nos
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_270

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Liver		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Unspecified	Multiple Organs Nos	Leukemia, Monocytic
	Multiple Organs Nos	Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_271

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lymph node

Spleen

Testis

Unspecified

Myocardium Nos

Mandibular Lymph Node

Mediastinal Lymph Node

Tunica Vaginalis

Multiple Organs Nos

Flank

Multiple Organs Nos

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Hepatitis, Toxic

Hyperplasia, Plasma Cell

Hyperplasia, Plasma Cell

Infarct, Nos

Interstitial-Cell Tumor

Mesothelioma, Malignant

Leukemia, Monocytic

Lipoma

Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_272

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Cortex Nos
Myocardium Nos

Degeneration, Cystic
Fibrosis
Cast, Nos
Inflammation, Chronic
Hepatitis, Toxic
Inflammation, Chronic
Squamous Cell Carcinoma
Interstitial-Cell Tumor
Follicular-Cell Carcinoma
Leukemia, Monocytic

Liver
Lung
Preputial gland
Testis
Thyroid
Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_273

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Brain

Intestine Large

Kidney

Liver

Lymph node

Testis

Thyroid

Zymbal gland

Descending, Colon

Mediastinal Lymph Node

Mandibular Lymph Node

Mediastinal Lymph Node

Pheochromocytoma

Granular-Cell Tumor, Nos

Adenomatous Polyp, Nos

Cast, Nos

Inflammation, Chronic

Focal Cellular Change

Neoplastic Nodule

Hemorrhage

Hyperplasia, Plasma Cell

Pigmentation, Nos

Interstitial-Cell Tumor

Follicular-Cell Adenoma

Dilatation, Ducts

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_274

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Cecum, Colon	Adenomatous Polyp, Nos
Liver		Cyst, Multilocular
		Focal Cellular Change
		Hepatocellular Carcinoma
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Pituitary gland		Cyst, Multilocular
Preputial gland		Carcinoma, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Adipose Tissue	Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_275

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Small
Liver
Lymph node
Prostate
Testis
Unspecified

Cortex Nos
Myocardium Nos
Serosa, Duodenum

Mandibular Lymph Node

Back
Coccygeal Region

Hypertrophy, Focal
Fibrosis
Inflammation, Acute/Chronic
Focal Cellular Change
Hyperplasia, Plasma Cell
Inflammation, Acute/Chronic
Interstitial-Cell Tumor
Fibrosarcoma
Neurofibrosarcoma

PRIMARY CAUSE OF DEATH

-

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_276

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Transverse Colon, Colon

Adenomatous Polyp, Nos

Kidney

Cast, Nos

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_277

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large

Cortex Nos
Ascending Colon, Colon
Descending, Colon
Cecum, Colon

Metamorphosis, Fatty
Adenocarcinoma In Adenomatous Polyp
Mucinous Cystadenocarcinoma
Mucinous Cystadenocarcinoma, Metastatic

Liver
Lung
Lymph node

Ileocolic Lymph Node
Mediastinal Lymph Node

Angiectasis
Inflammation, Chronic
Mucinous Cystadenocarcinoma, Metastatic
Pigmentation, Nos

Stomach

Submucosa

Acanthosis
Edema, Nos
Inflammation, Chronic
Interstitial-Cell Tumor

Testis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_278

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Ileocolic Lymph Node	Lymphangiectasis
Pancreas		Periarteritis
Prostate		Adenoma, Nos
Skin		Basal-Cell Carcinoma
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Neck	Fibroma
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_279

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Cortex Nos
Myocardium Nos

Metamorphosis, Fatty
Fibrosis
Cast, Nos
Inflammation, Chronic

Liver
Lymph node

Mesenteric Lymph Node
Popliteal Lymph Node
Mediastinal Lymph Node
Mesenteric Lymph Node

Hepatitis, Toxic
Hemorrhage
Hyperplasia, Plasma Cell
Lymphangiectasis
Pigmentation, Nos

Mammary gland
Pituitary gland
Prostate
Skin
Stomach

Lower Leg
Submucosa

Fibrous Histiocytoma, Invasive
Adenoma, Nos
Inflammation, Acute/Chronic
Keratoacanthoma
Acanthosis
Edema, Nos

Testis
Thyroid
Unspecified

Groin
Leg
Multiple Organs Nos
Multiple Organs Nos

Ulcer, Acute
Interstitial-Cell Tumor
C-Cell Carcinoma
Fibroma
Fibrous Histiocytoma, Malignant
Fibrous Histiocytoma, Metastatic
Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_280

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Fibrosis

Liver

Bile Duct

Hyperplasia, Nos

Lung

Necrosis, Coagulative

Preputial gland

Inflammation, Chronic

Testis

Carcinoma, Nos

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_281

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Kidney

Ascending Colon, Colon

Pheochromocytoma
Mucinous Cystadenocarcinoma
Cast, Nos
Inflammation, Chronic
Hepatitis, Toxic
Necrosis, Coagulative
Interstitial-Cell Tumor
Cystic Follicles
Leukemia, Monocytic

Liver

Testis

Thyroid

Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_282

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain	Medulla Oblongata Nos	Abscess, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Ascending Colon, Colon	Mucinous Cystadenocarcinoma
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Ileocolic Lymph Node	Mucinous Cystadenocarcinoma, Metastatic
Mammary gland		Galactocele
Testis		Interstitial-Cell Tumor
Unspecified	Adipose Tissue	Mucinous Cystadenocarcinoma, Metastatic
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_283

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large
Kidney
Liver
Lung
Prostate
Spleen
Testis
Thyroid
Zymbal gland

Ascending Colon, Colon

Mucinous Cystadenocarcinoma
Inflammation, Chronic
Degeneration, Cystic
Inflammation, Chronic
Inflammation, Acute/Chronic
Leukemia, Monocytic
Interstitial-Cell Tumor
Follicular-Cell Carcinoma
Dilatation, Ducts
Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_284

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Small

Duodenum

Signet Ring Carcinoma

Liver

Hepatitis, Toxic

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

Multiple Organs Nos

Signet Ring Carcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_285

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Pituitary gland		Cyst, Nos
Testis		Interstitial-Cell Tumor
Zymbal gland		Squamous Cell Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_286

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hyperplasia, Plasma Cell
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_287

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart
Intestine Large

Myocardium Nos
Descending, Colon
Transverse Colon, Colon

Kidney

Fibrosis
Adenomatous Polyp, Nos
Adenomatous Polyp, Nos
Cast, Nos
Cyst, Nos
Inflammation, Chronic
Focal Cellular Change
Hyperplasia, Nos
Interstitial-Cell Tumor
C-Cell Carcinoma

Liver
Prostate
Testis
Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_288

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Liver		Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Cystic
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_289

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Ascending Colon, Colon	Mucinous Cystadenocarcinoma
Kidney		Cast, Nos
Liver		Inflammation, Chronic
		Necrosis, Nos
		Thrombus, Fibrin
Lung		Congestion, Nos
Lymph node	Mediastinal Lymph Node	Congestion, Nos
	Mediastinal Lymph Node	Inflammation, Suppurative
	Ileocolic Lymph Node	Mucinous Cystadenocarcinoma, Metastatic
	Mesenteric Lymph Node	Mucinous Cystadenocarcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_290

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal Pheochromocytoma
Eye	Retina	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Descending, Colon	Fibrosis
Kidney		Adenomatous Polyp, Nos
		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
Lung		Alveolar/Bronchiolar Adenoma
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_291

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Signet Ring Carcinoma
Lung		Congestion, Nos
		Inflammation, Acute
Pancreas		Acinar-Cell Adenoma
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Signet Ring Carcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_292

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Mammary gland

Skin

Testis

Thyroid

Head

Galactocele

Squamous Cell Carcinoma

Hyperplasia, Interstitial Cell

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_293

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Ascending Colon, Colon	Adenocarcinoma, Nos
	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
	Periportal	Fibrosis
	Bile Duct	Hyperplasia, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_294

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Pituitary gland		Cyst, Nos
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_295

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Large

Cecum, Colon

Mucinous Cystadenocarcinoma

Liver

Necrosis, Coagulative

Salivary gland

Sarcoma, Nos

Spleen

Hematopoiesis

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma

Unspecified

Multiple Organs Nos

Mucinous Cystadenocarcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_296

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney

Medulla
Myocardium Nos
Descending, Colon

Lung
Lymph node

Mediastinal Lymph Node
Mediastinal Lymph Node
Mediastinal Lymph Node

Skin
Testis
Unspecified

Back

Multiple Organs Nos

Hyperplasia, Focal
Fibrosis
Adenomatous Polyp, Nos
Cast, Nos
Inflammation, Chronic
Inflammation, Chronic
Hemorrhage
Hyperplasia, Reticulum Cell
Pigmentation, Nos
Squamous Cell Papilloma
Interstitial-Cell Tumor
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_297

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Small	Jejunum	Adenocarcinoma, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatocellular Carcinoma
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
Spleen		Fibrosis
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_298

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mesenteric Lymph Node	Hyperplasia, Reticulum Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Skin		Keratoacanthoma
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_299

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Eye	Retina	Degeneration, Nos
Liver		Necrosis, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_300

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Epididymis

Necrosis, Fat

Intestine Large

Descending, Colon

Steatitis

Kidney

Adenomatous Polyp, Nos

Liver

Inflammation, Chronic

Lung

Focal Cellular Change

Testis

Inflammation, Chronic

Thyroid

Interstitial-Cell Tumor

C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_301

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Lipoma
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
	Pancreatic Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Prostate		Inflammation, Acute/Chronic
Skin	Back	Keratoacanthoma
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_302

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Intestine Large

Kidney

Liver

Lung

Pancreas

Testis

Descending, Colon

Cecum, Colon

Tunica Vaginalis

Pheochromocytoma

Adenomatous Polyp, Nos

Parasitism

Cast, Nos

Focal Cellular Change

Metamorphosis, Fatty

Inflammation, Chronic

Acinar-Cell Adenoma

Atrophy, Nos

Interstitial-Cell Tumor

Mesothelioma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_303

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Small
Kidney

Duodenum

Mucinous Cystadenocarcinoma

Liver

Cast, Nos
Inflammation, Chronic
Focal Cellular Change

Pancreas

Metamorphosis, Fatty

Pituitary gland

Inflammation, Chronic

Preputial gland

Hypertrophy, Focal

Testis

Carcinoma, Nos

Degeneration, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_304

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Pheochromocytoma

Heart

Myocardium Nos

Fibrosis

Kidney

Cast, Nos

Inflammation, Chronic

Liver

Focal Cellular Change

Parathyroid gland

Hyperplasia, Nos

Pituitary gland

Adenoma, Nos

Prostate

Inflammation, Acute/Chronic

Stomach

Submucosa

Edema, Nos

Testis

Interstitial-Cell Tumor

Thyroid

Cystic Follicles

Zymbal gland

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_305

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Pituitary gland		Cyst, Multilocular
Testis		Interstitial-Cell Tumor
Unspecified	Diaphragm Nos	Hernia, Nos
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_306

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
Lymph node	Mesenteric Lymph Node	Lymphangiectasis
Pancreas	Islets	Islet-Cell Adenoma
		Periarteritis
Spleen		Leukemia, Monocytic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_307

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
Lymph node	Mandibular Lymph Node	Hyperplasia, Reticulum Cell
	Brachial Lymph Node	Pigmentation, Nos
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Acinar-Cell Adenoma
		Atrophy, Nos
Pituitary gland		Hypertrophy, Focal
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Groin	Fibroma
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_308

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Kidney

Descending, Colon

Pheochromocytoma
Adenomatous Polyp, Nos
Cast, Nos
Inflammation, Chronic
Pigmentation, Nos

Liver
Lymph node
Pancreas

Mediastinal Lymph Node

Focal Cellular Change
Pigmentation, Nos
Acinar-Cell Adenoma
Atrophy, Nos

Skin
Testis
Thyroid

Nose

Keratoacanthoma
Interstitial-Cell Tumor
C-Cell Adenoma
Follicular-Cell Adenoma
Leukemia, Monocytic

Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_309

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart
Intestine Large
Kidney

Myocardium Nos
Descending, Colon

Fibrosis
Adenomatous Polyp, Nos
Cast, Nos
Inflammation, Chronic
Focal Cellular Change
Neoplastic Nodule
Inflammation, Acute/Chronic
Interstitial-Cell Tumor
C-Cell Carcinoma

Liver

Prostate
Testis
Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_310

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
Lung		Inflammation, Chronic
Prostate		Inflammation, Acute/Chronic
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Unspecified	Thorax	Fibrous Histiocytoma, Malignant
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_311

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone	Sternum	Osteosarcoma
Heart	Myocardium Nos	Fibrosis
Lung		Osteosarcoma, Metastatic
Lymph node	Pancreatic Lymph Node	Hematopoiesis
	Cervical Lymph Node Nos	Hyperplasia, Lymphoid
	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Pancreatic Lymph Node	Hyperplasia, Reticulum Cell
Spleen		Hematopoiesis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_312

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lymph node

Pancreas

Testis

Mediastinal Lymph Node

Mediastinal Lymph Node

Pheochromocytoma

Adenocarcinoma, Nos, Metastatic

Cast, Nos

Inflammation, Chronic

Hepatocellular Carcinoma

Hyperplasia, Plasma Cell

Pigmentation, Nos

Atrophy, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_313

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Ascending Colon, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
Pituitary gland		Angiectasis
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_314

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Intestine Large	Colon	Parasitism
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
		Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
Prostate		Hyperplasia, Focal
Salivary gland		Inflammation, Chronic
Skin	Lower Leg	Keratoacanthoma
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Thymus		Cyst, Thyroglossal Duct
Thyroid		Follicular-Cell Carcinoma
Trachea		Squamous Cell Carcinoma, Invasive
Zymbal gland		Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_315

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large
Kidney

Descending, Colon
Left Kidney
Right Kidney
Left Kidney
Right Kidney

Adenomatous Polyp, Nos
Cast, Nos
Cyst, Nos
Inflammation, Chronic
Inflammation, Chronic
Inflammation, Chronic
Hyperplasia, Plasma Cell
Lymphangiectasis
Degeneration, Nos
Interstitial-Cell Tumor

Lung
Lymph node

Mandibular Lymph Node
Mandibular Lymph Node

Testis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_316

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Lymph node

Mandibular Lymph Node

Inflammation, Chronic

Pancreas

Hyperplasia, Plasma Cell

Stomach

Acinar-Cell Adenoma

Testis

Acanthosis

Zymbal gland

Inflammation, Acute/Chronic

Interstitial-Cell Tumor

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_317

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Epididymis
Heart
Kidney
Liver

Cortex Nos

Myocardium Nos

Metamorphosis, Fatty
Steatitis
Fibrosis
Cast, Nos
Cyst, Multilocular
Focal Cellular Change
Liposarcoma
Neoplastic Nodule
Inflammation, Chronic
Interstitial-Cell Tumor
Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_318

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Kidney

Cortex Nos

Metamorphosis, Fatty
Cast, Nos

Liver

Inflammation, Chronic
Pigmentation, Nos

Mammary gland

Bile Duct

Hepatitis, Toxic

Pancreas

Hyperplasia, Nos

Pituitary gland

Galactocele

Prostate

Islets

Islet-Cell Carcinoma

Testis

Adenoma, Nos

Thyroid

Hyperplasia, Focal

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

C-Cell Carcinoma

Follicular-Cell Carcinoma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_319

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Metamorphosis, Fatty
Lung		Hyperplasia, Alveolar Epithelium
		Inflammation, Interstitial
Lymph node	Celiac Lymph Node	Lymphangiectasis
Pancreas		Cyst, Nos
Prostate		Hyperplasia, Focal
Skin	Ear	Squamous Cell Papilloma
Testis		Interstitial-Cell Tumor
Unspecified	Back	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_320

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Myocardium Nos

Pheochromocytoma

Fibrosis

Cast, Nos

Cyst, Nos

Inflammation, Chronic

Focal Cellular Change

Liver

Lymph node

Mandibular Lymph Node

Celiac Lymph Node

Inflammation, Suppurative

Lymphangiectasis

Nasal cavity

Oral mucosa

Prostate

Skin

Testis

Thyroid

Oral Cavity

Inflammation, Suppurative

Inflammation, Chronic

Inflammation, Acute/Chronic

Back

Keratoacanthoma

Interstitial-Cell Tumor

Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_321

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Intestine Large

Cortex Nos

Metamorphosis, Fatty

Kidney

Ascending Colon, Colon

Hyperplasia, Epithelial

Liver

Cast, Nos

Inflammation, Chronic

Skin

Hepatitis, Toxic

Squamous Cell Papilloma

Spleen

Infarct, Nos

Testis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_322

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Submucosa, Colon

Edema, Nos

Colon

Inflammation, Acute

Kidney

Cast, Nos

Liver

Inflammation, Chronic

Lung

Hepatitis, Toxic

Lymph node

Inflammation, Chronic

Testis

Celiac Lymph Node

Lymphangiectasis

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_323

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Lung

Cortex Nos

Metamorphosis, Fatty

Congestion, Nos

Hemorrhage

Inflammation, Chronic

Lymph node

Mediastinal Lymph Node

Congestion, Nos

Spleen

Hemosiderosis

Stomach

Ulcer, Nos

Testis

Steatitis

Unspecified

Diaphragm Nos

Hernia, Nos

Zymbal gland

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_324

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart
Intestine Large
Kidney
Pancreas
Pituitary gland
Testis

Myocardium Nos
Descending, Colon

Fibrosis
Adenocarcinoma In Adenomatous Polyp
Inflammation, Chronic
Atrophy, Nos
Angiectasis
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_325

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lung

Lymph node

Salivary gland

Testis

Thyroid

Zymbal gland

Myocardium Nos

Bile Duct

Cervical Lymph Node Nos

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Focal Cellular Change

Hyperplasia, Nos

Inflammation, Chronic

Carcinoma, Nos, Metastatic

Carcinoma, Nos

Interstitial-Cell Tumor

C-Cell Carcinoma

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_326

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Medulla
Myocardium Nos

Pheochromocytoma
Fibrosis
Cast, Nos
Inflammation, Chronic

Liver

Degeneration, Cystic
Hepatitis, Toxic

Lung
Lymph node
Pancreas

Mandibular Lymph Node

Inflammation, Interstitial
Hyperplasia, Plasma Cell
Atrophy, Nos

Spleen
Testis
Thyroid

Infarct, Nos
Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

C-Cell Carcinoma
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_327

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large
Kidney
Liver

Descending, Colon

Adenomatous Polyp, Nos
Inflammation, Chronic
Focal Cellular Change
Inflammation, Acute

Lung
Lymph node
Pancreas
Testis
Thyroid

Mesenteric Lymph Node

Inflammation, Chronic
Pigmentation, Nos
Atrophy, Nos
Interstitial-Cell Tumor
Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_328

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
Liver		Focal Cellular Change
Lung		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified		Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_329

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
	Pancreatic Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_330

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Ascending Colon, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Degeneration, Cystic
		Focal Cellular Change
Lung		Inflammation, Chronic
Pituitary gland		Adenoma, Nos
Stomach		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_331

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Focal Cellular Change
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Acinar-Cell Adenoma
	Islets	Islet-Cell Adenoma
Prostate		Inflammation, Acute/Chronic
Spleen		Infarct, Nos
Stomach		Acanthosis
		Inflammation, Acute/Chronic
		Ulcer, Perforated
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_332

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Liver		Focal Cellular Change
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Malignant
Unspecified	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_333

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Brain

Osteoma

Intestine Small

Mesentery Nos

Necrosis, Fat

Kidney

Cast, Nos

Inflammation, Chronic

Liver

Inflammation, Suppurative

Pituitary gland

Adenoma, Nos

Prostate

Inflammation, Acute/Chronic

Spleen

Hemosiderosis

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma

Unspecified

Adipose Tissue

Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_334

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Focal Cellular Change
		Metamorphosis, Fatty
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Skin		Squamous Cell Papilloma
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Back	Fibroma
	Tail	Trichoepithelioma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_335

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Kidney

Cast, Nos

Lung

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

Thyroid

Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_336

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
Lymph node	Mediastinal Lymph Node	Hyperplasia, Reticulum Cell
	Mandibular Lymph Node	Lymphangiectasis
Pancreas		Atrophy, Nos
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_337

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Intestine Large

Kidney

Liver

Lung

Lymph node

Pancreas

Pituitary gland

Prostate

Testis

Thyroid

Retina

Myocardium Nos

Colon

Mediastinal Lymph Node

Islets

Pheochromocytoma

Cataract

Degeneration, Nos

Fibrosis

Parasitism

Cast, Nos

Inflammation, Chronic

Metamorphosis, Fatty

Inflammation, Chronic

Pigmentation, Nos

Islet-Cell Carcinoma

Adenoma, Nos

Inflammation, Acute/Chronic

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_338

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
Liver		Focal Cellular Change
		Hepatitis, Toxic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_339

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart
Intestine Large
Kidney

Myocardium Nos
Descending, Colon

Fibrosis
Adenocarcinoma In Adenomatous Polyp
Cast, Nos
Inflammation, Chronic
Focal Cellular Change
Hyperplasia, Alveolar Epithelium
Atrophy, Nos
Interstitial-Cell Tumor
Hyperplasia, C Cell

Liver
Lung
Pancreas
Testis
Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_340

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Intestine Large

Kidney

Liver

Lymph node

Preputial gland

Prostate

Skin

Testis

Thyroid

Transverse Colon, Colon

Ascending Colon, Colon

Mediastinal Lymph Node

Mediastinal Lymph Node

Back

Pheochromocytoma

Adenomatous Polyp, Nos

Mucinous Cystadenocarcinoma

Cast, Nos

Inflammation, Chronic

Focal Cellular Change

Hemorrhage

Pigmentation, Nos

Carcinoma, Nos

Hyperplasia, Focal

Keratoacanthoma

Interstitial-Cell Tumor

Mineralization

C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_341

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Inflammation, Chronic

Mammary gland

Angiectasis

Testis

Hepatitis, Toxic

Thyroid

Fibroadenoma

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_342

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Descending, Colon

Parasitism

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Lymph node

Mesenteric Lymph Node

Pigmentation, Nos

Pancreas

Acinar-Cell Adenoma

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_343

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Kidney

Descending, Colon

Liver

Lung
Lymph node
Pancreas
Pituitary gland
Preputial gland
Testis
Thyroid

Mandibular Lymph Node
Islets

Pheochromocytoma
Adenomatous Polyp, Nos
Cast, Nos
Inflammation, Chronic
Cyst, Nos
Degeneration, Cystic
Focal Cellular Change
Inflammation, Chronic
Hyperplasia, Plasma Cell
Islet-Cell Adenoma
Angiectasis
Carcinoma, Nos
Interstitial-Cell Tumor
Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_344

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Brain		Carcinoma, Nos, Invasive
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
		Hepatocellular Carcinoma
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Mammary gland		Galactocele
Pancreas		Atrophy, Nos
Pituitary gland		Carcinoma, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_345

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Liver

Inflammation, Chronic

Angiectasis

Hepatitis, Toxic

Hyperplasia, Nos

Lymph node

Mandibular Lymph Node

Lymphangiectasis

Mediastinal Lymph Node

Pigmentation, Nos

Pituitary gland

Adenoma, Nos

Prostate

Inflammation, Acute/Chronic

Testis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_346

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Colon

Inflammation, Chronic Focal

Kidney

Cast, Nos

Liver

Hepatitis, Toxic

Lung

Inflammation, Chronic

Pancreas

Atrophy, Nos

Prostate

Inflammation, Acute/Chronic

Stomach

Submucosa

Edema, Nos

Testis

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_347

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain		Astrocytoma
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas	Islets	Hyperplasia, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Infarct, Healed
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_348

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Adenocarcinoma, Nos, Invasive
Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver	Periportal	Fibrosis
	Bile Duct	Hyperplasia, Nos
Nasal cavity	Turbinate Nos	Adenocarcinoma, Nos
Pancreas	Duct Nos	Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
Unspecified	Multiple Organs Nos	Adenocarcinoma, Nos, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_349

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone	Skull	Hyperostosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Degeneration, Cystic
		Focal Cellular Change
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Spleen		Hemosiderosis
Stomach		Acanthosis
		Inflammation, Acute/Chronic
Testis		Ulcer, Perforated
Thyroid		Interstitial-Cell Tumor
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_350

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Lymph node
Prostate
Stomach

Cortex Nos
Ascending Colon, Colon
Mesenteric Lymph Node

Metamorphosis, Fatty
Mucinous Cystadenocarcinoma
Mucinous Cystadenocarcinoma, Metastatic
Inflammation, Acute/Chronic
Acanthosis
Edema, Nos
Inflammation, Acute/Chronic
Ulcer, Chronic
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Leukemia, Monocytic

Submucosa

Testis

Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_351

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Lung		Hemorrhage Inflammation, Acute/Chronic Inflammation, Interstitial
Lymph node	Mediastinal Lymph Node Mesenteric Lymph Node	Pigmentation, Nos Pigmentation, Nos
Prostate		Inflammation, Suppurative
Spleen		Hematopoiesis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_352

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Epididymis

Eye

Heart

Kidney

Liver

Lung

Lymph node

Pituitary gland

Prostate

Testis

Thyroid

Tongue

Unspecified

Retina

Myocardium Nos

Mandibular Lymph Node

Axilla Nos

Pheochromocytoma

Steatitis

Cataract

Degeneration, Nos

Fibrosis

Cast, Nos

Cyst, Nos

Inflammation, Chronic

Degeneration, Cystic

Fibrosis

Fibrous Histiocytoma, Metastatic

Hepatocellular Carcinoma

Neoplastic Nodule

Inflammation, Chronic

Inflammation, Interstitial

Hyperplasia, Plasma Cell

Adenoma, Nos

Hyperplasia, Focal

Interstitial-Cell Tumor

Hyperplasia, C Cell

Squamous Cell Papilloma

Fibrous Histiocytoma, Malignant

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_353

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Hepatitis, Toxic
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_354

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Small	Mucosa, Duodenum	Hyperplasia, Nos
	Duodenum	Metaplasia, Osseous
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Degeneration, Cystic
	Periportal	Fibrosis
		Metamorphosis, Fatty
Pancreas		Acinar-Cell Adenoma
		Atrophy, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Fibrosis
		Hemosiderosis
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_355

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Liver

Focal Cellular Change

Lung

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_356

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney
Liver

Cortex Nos
Myocardium Nos
Descending, Colon

Lung
Lymph node

Mediastinal Lymph Node
Mediastinal Lymph Node

Prostate
Spleen
Stomach
Testis

Metamorphosis, Fatty
Fibrosis
Adenomatous Polyp, Nos
Mixed Tumor, Malignant
Angiectasis
Metamorphosis, Fatty
Mixed Tumor, Metastatic
Congestion, Nos
Hemorrhage
Inflammation, Acute/Chronic
Hematopoiesis
Ulcer, Acute
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_357

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
		Neoplastic Nodule
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Hyperplasia, Reticulum Cell
Pancreas		Atrophy, Nos
Preputial gland		Carcinoma, Nos
Skin		Squamous Cell Carcinoma
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_358

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Degeneration, Cystic
		Hepatitis, Toxic
		Hepatocellular Carcinoma
Lung		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_359

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Epididymis

Necrosis, Fat

Heart

Myocardium Nos

Steatitis

Kidney

Fibrosis

Liver

Cast, Nos

Inflammation, Chronic

Focal Cellular Change

Hepatocellular Carcinoma

Bile Duct

Hyperplasia, Nos

Prostate

Inflammation, Acute/Chronic

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Carcinoma

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_360

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Hyperplasia, Alveolar Epithelium
Pancreas		Acinar-Cell Adenoma
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Back	Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_361

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
	Colon	Parasitism
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
	Periportal	Fibrosis
		Focal Cellular Change
		Hepatocellular Carcinoma
Pituitary gland		Angiectasis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_362

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart
Intestine Large
Kidney
Lung
Testis

Myocardium Nos
Descending, Colon

Fibrosis
Adenomatous Polyp, Nos
Cast, Nos
Inflammation, Chronic
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_363

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon Descending, Colon	Adenomatous Polyp, Nos Parasitism
Kidney		Cast, Nos Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Testis		Interstitial-Cell Tumor
Unspecified	Back Multiple Organs Nos	Fibroma Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_364

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Large

Colon

Parasitism

Pituitary gland

Angiectasis

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_365

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Intestine Large	Descending, Colon	Mucinous Cystadenocarcinoma
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatocellular Carcinoma
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Malignant
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_366

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Cecum, Colon

Inflammation, Acute/Chronic

Ascending Colon, Colon

Mucinous Cystadenocarcinoma

Lung

Inflammation, Chronic

Lymph node

Celiac Lymph Node

Hyperplasia, Reticulum Cell

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_367

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Intestine Large

Kidney

Lymph node

Testis

Thyroid

Myocardium Nos

Transverse Colon, Colon

Mediastinal Lymph Node

Mesenteric Lymph Node

Pheochromocytoma

Inflammation, Chronic

Adenomatous Polyp, Nos

Inflammation, Chronic

Hemorrhage

Lymphangiectasis

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_368

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney

Cortex Nos

Metamorphosis, Fatty
Cast, Nos

Liver

Inflammation, Chronic
Degeneration, Cystic
Hepatocellular Carcinoma

Lung
Lymph node

Mandibular Lymph Node
Mediastinal Lymph Node

Inflammation, Chronic
Hyperplasia, Plasma Cell
Hyperplasia, Plasma Cell

Spleen
Testis

Hematopoiesis
Interstitial-Cell Tumor
Follicular-Cell Carcinoma

Thyroid
Unspecified

Leg

Basal-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_369

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow
Intestine Large
Kidney
Testis
Thyroid
Unspecified

Cecum, Colon

Multiple Organs Nos

Hyperplasia, Nos
Mucinous Cystadenocarcinoma
Inflammation, Chronic
Interstitial-Cell Tumor
C-Cell Carcinoma
Mucinous Cystadenocarcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_370

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart
Intestine Large

Myocardium Nos
Descending, Colon
Colon

Inflammation, Chronic
Adenomatous Polyp, Nos
Parasitism
Cast, Nos
Interstitial-Cell Tumor
Hyperplasia, C Cell

Kidney
Testis
Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_546

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Bone	Sternum	Myelosclerosis
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
	Periportal	Fibrosis
		Focal Cellular Change
		Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Hemorrhage
	Cervical Lymph Node Nos	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Pancreatic Lymph Node	Pigmentation, Nos
Preputial gland		Cystic Ducts
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Lymphoma, Histiocytic-Malignant Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_547

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Epididymis

Heart

Kidney

Liver

Lymph node

Prostate

Skin

Testis

Unspecified

Myocardium Nos

Mandibular Lymph Node

Mandibular Lymph Node

Mediastinal Lymph Node

Mesenteric Lymph Node

Back

Multiple Organs Nos

Steatitis

Fibrosis

Cast, Nos

Inflammation, Chronic

Neoplastic Nodule

Hyperplasia, Plasma Cell

Lymphangiectasis

Pigmentation, Nos

Pigmentation, Nos

Inflammation, Acute/Chronic

Keratoacanthoma

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_548

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Myocardium Nos

Testis

Unspecified

Multiple Organs Nos

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_549

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Fibrosis
Pituitary gland		Hyperplasia, Focal
Preputial gland		Cyst, Nos
Prostate		Inflammation, Suppurative
Seminal vesicle		Inflammation, Suppurative
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Back	Fibroma
Urinary bladder		Hemorrhage
		Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_550

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Blood vessel

Heart

Lung

Skin

Spleen

Testis

Mesenteric Artery Nos

Myocardium Nos

Pheochromocytoma

Periarteritis

Fibrosis

Inflammation, Chronic

Squamous Cell Carcinoma

Hematopoiesis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_551

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Fibrosis
Intestine Large	Colon	Hyperplasia, Lymphoid
Kidney		Cast, Nos
		Inflammation, Chronic
		Pyelonephritis, Acute
Lung		Inflammation, Chronic
Mammary gland		Galactocele
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Hemosiderosis
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
		Periarteritis
Thyroid		C-Cell Carcinoma
Urinary bladder		Inflammation, Acute

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_552

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye	Retina	Cataract Degeneration, Nos Inflammation, Acute
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos Inflammation, Chronic Pigmentation, Nos
Liver	Periportal	Fibrosis Hepatitis, Toxic
Lymph node	Mesenteric Lymph Node Pancreatic Lymph Node	Pigmentation, Nos Pigmentation, Nos
Mammary gland		Inflammation, Granulomatous Focal
Pancreas	Islets	Atrophy, Nos Islet-Cell Carcinoma Mesothelioma, Metastatic
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Stomach	Serosa	Mesothelioma, Metastatic
Testis	Tunica Vaginalis	Interstitial-Cell Tumor Mesothelioma, Malignant
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos Head	Leukemia, Monocytic Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_553

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lung

Lymph node

Pancreas

Parathyroid gland

Prostate

Testis

Thyroid

Unspecified

Urinary bladder

Myocardium Nos

Mediastinal Lymph Node

Multiple Organs Nos

Eyelid

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Pigmentation, Nos

Inflammation, Chronic

Pigmentation, Nos

Atrophy, Nos

Hyperplasia, Nos

Inflammation, Acute/Chronic

Interstitial-Cell Tumor

Cystic Follicles

Leukemia, Monocytic

Neurofibroma

Inflammation, Acute

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_554

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Bone	Sternum	Hyperplasia, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Colon	Hyperplasia, Lymphoid
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
		Metamorphosis, Fatty
Lung		Hyperplasia, Alveolar Epithelium
		Squamous Cell Carcinoma
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Stomach		Acanthosis
	Submucosa	Edema, Nos
		Inflammation, Acute
Testis		Ulcer, Acute
Thyroid		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	C-Cell Carcinoma
		Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_555

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Cortex Nos

Hypertrophy, Focal

Heart

Myocardium Nos

Fibrosis

Kidney

Cast, Nos

Lung

Inflammation, Chronic

Lymph node

Mandibular Lymph Node

Inflammation, Chronic

Mediastinal Lymph Node

Hyperplasia, Plasma Cell

Mesenteric Lymph Node

Pigmentation, Nos

Prostate

Pigmentation, Nos

Testis

Inflammation, Acute/Chronic

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_556

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Pigmentation, Nos
		Degeneration, Cystic
		Fibrosis
Lung		Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Congestion, Nos
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Lymphangiectasis
Testis		Pigmentation, Nos
	Tunica Vaginalis	Interstitial-Cell Tumor
Thyroid		Mesothelioma, Malignant
		C-Cell Carcinoma
Unspecified	Back	Cystic Follicles
	Multiple Organs Nos	Fibroma
	Multiple Organs Nos	Leukemia, Monocytic
	Abdominal Cavity	Mesothelioma, Metastatic
	Abdominal Cavity	Necrosis, Fat
		Steatitis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_557

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Intestine Large	Colon	Hyperplasia, Lymphoid
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Pigmentation, Nos
		Degeneration, Cystic
	Bile Duct	Focal Cellular Change
		Hyperplasia, Nos
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Fibrosis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_558

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Inflammation, Chronic

Pigmentation, Nos

Lung

Inflammation, Chronic

Lymph node

Mediastinal Lymph Node

Pigmentation, Nos

Spleen

Hematopoiesis

Testis

Interstitial-Cell Tumor

Unspecified

Tunica Vaginalis

Mesothelioma, Malignant

Multiple Organs Nos

Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_559

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Liver

Lymph node

Pancreas

Prostate

Stomach

Testis

Thyroid

Unspecified

Bile Duct

Mediastinal Lymph Node

Mandibular Lymph Node

Mediastinal Lymph Node

Mesenteric Lymph Node

Groin

Pheochromocytoma

Cast, Nos

Inflammation, Chronic

Focal Cellular Change

Hyperplasia, Nos

Metamorphosis, Fatty

Hemorrhage

Hyperplasia, Plasma Cell

Pigmentation, Nos

Pigmentation, Nos

Atrophy, Nos

Inflammation, Acute/Chronic

Acanthosis

Inflammation, Acute

Ulcer, Acute

Interstitial-Cell Tumor

C-Cell Adenoma

Trichoepithelioma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_560

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Hepatitis, Toxic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Preputial gland		Carcinoma, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:43
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_561

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Intestine Large	Colon	Inflammation, Acute/Chronic
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Hepatitis, Toxic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Pituitary gland		Hyperplasia, Focal
Prostate		Inflammation, Acute/Chronic
Spleen		Fibrosis
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_562

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Liver		Hepatitis, Toxic
Lymph node	Mesenteric Lymph Node	Hemorrhage
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mesenteric Lymph Node	Pigmentation, Nos
Stomach		Acanthosis
	Submucosa	Edema, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
Unspecified	Multiple Organs Nos	Lymphoma, Histiocytic-Malignant Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_563

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Cast, Nos

Lymph node

Mandibular Lymph Node

Inflammation, Chronic

Hyperplasia, Plasma Cell

Testis

Mediastinal Lymph Node

Pigmentation, Nos

Thyroid

Interstitial-Cell Tumor

C-Cell Carcinoma

Unspecified

Multiple Organs Nos

Follicular-Cell Adenoma

Multiple Organs Nos

Inflammation, Suppurative

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:43

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_564

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Degeneration, Cystic
		Focal Cellular Change
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mesenteric Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Pigmentation, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_565

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Degeneration, Cystic
		Fibrosis
		Focal Cellular Change
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mediastinal Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_566

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney

Cortex Nos

Hyperplasia, Focal
Cast, Nos

Liver

Periportal

Inflammation, Chronic
Fibrosis

Lung

Focal Cellular Change
Inflammation, Chronic

Lymph node

Bronchiole

Periarteritis

Prostate

Mandibular Lymph Node

Hyperplasia, Plasma Cell

Testis

Inflammation, Acute/Chronic

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_567

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Descending, Colon	Adenomatous Polyp, Nos
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Metamorphosis, Fatty
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mesenteric Lymph Node	Pigmentation, Nos
Pituitary gland		Adenoma, Nos
Prostate		Abscess, Chronic
		Inflammation, Acute/Chronic
Skin	Back	Keratoacanthoma
Spleen		Hemosiderosis
Stomach		Acanthosis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_568

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Colon	Hyperplasia, Lymphoid
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver	Periportal	Fibrosis
	Bile Duct	Hyperplasia, Nos
Lung		Hyperplasia, Alveolar Epithelium
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Pancreas		Acinar-Cell Adenoma
	Islets	Islet-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_569

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Congestion, Nos

Liver

Congestion, Nos

Lung

Bronchiectasis

Congestion, Nos

Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_570

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Spleen		Hematopoiesis
Testis		Hyperplasia, Interstitial Cell
Unspecified		Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_571

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Bone	Femur	Myelosclerosis
Eye		Cataract
	Retina	Degeneration, Nos
	Cornea	Inflammation, Acute
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Pancreas		Atrophy, Nos
Parathyroid gland		Hyperplasia, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Hemosiderosis
Stomach	Muscularis	Degeneration, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_572

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Cortex Nos
Myocardium Nos

Metamorphosis, Fatty
Fibrosis
Cast, Nos

Liver

Periportal

Inflammation, Chronic
Fibrosis
Focal Cellular Change
Hepatitis, Toxic

Lung
Lymph node

Mandibular Lymph Node
Mesenteric Lymph Node

Inflammation, Chronic
Hyperplasia, Plasma Cell
Lymphangiectasis

Parathyroid gland
Testis
Thyroid
Unspecified

Hyperplasia, Nos
Interstitial-Cell Tumor
C-Cell Carcinoma

Diaphragm Nos
Multiple Organs Nos

Hernia, Nos
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_573

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Lymph node

Parathyroid gland

Preputial gland

Stomach

Testis

Thyroid

Myocardium Nos

Cervical Lymph Node Nos

Mediastinal Lymph Node

Submucosa

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

C-Cell Carcinoma, Metastatic

Pigmentation, Nos

Hyperplasia, Nos

Abscess, Nos

Acanthosis

Edema, Nos

Ulcer, Acute

Interstitial-Cell Tumor

C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_574

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Skin	Head Nos	Fibrous Histiocytoma, Malignant
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Diaphragm Nos	Hernia, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_575

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma
Bone	Mandible	Squamous Cell Carcinoma
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Prostate		Inflammation, Acute/Chronic
Skin	Neck	Squamous Cell Papilloma
Stomach		Inflammation, Chronic
Testis		Degeneration, Nos Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_576

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver	Periportal	Fibrosis
		Focal Cellular Change
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_577

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Intestine Large	Colon	Hyperplasia, Lymphoid
Liver		Hepatitis, Toxic
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas	Islets	Islet-Cell Carcinoma
Pituitary gland		Angiectasis
Prostate		Inflammation, Acute/Chronic
Stomach	Submucosa	Edema, Nos
		Ulcer, Acute
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos
Thyroid		Hyperplasia, C Cell
Unspecified	Abdominal Cavity	Chondroma
	Axilla	Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_578

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Intestine Large	Transverse Colon, Colon	Leiomyosarcoma
Kidney		Cast, Nos Cyst, Nos Inflammation, Chronic
Liver		Angiectasis Degeneration, Cystic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Stomach		Acanthosis Inflammation, Acute/Chronic
Testis		Ulcer, Perforated
Thyroid		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Cystic Follicles Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_579

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney		Cast, Nos Inflammation, Chronic Pigmentation, Nos
Liver	Periportal	Fibrosis Hepatitis, Toxic Inflammation, Chronic
Lung		Hyperplasia, Plasma Cell
Lymph node	Mediastinal Lymph Node Mediastinal Lymph Node	Pigmentation, Nos
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_580

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Lymph node

Mediastinal Lymph Node

Pigmentation, Nos

Unspecified

Multiple Organs Nos

Lymphoma, Histiocytic-Malignant Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_581

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Cortex Nos
Myocardium Nos

Metamorphosis, Fatty
Fibrosis
Cast, Nos
Inflammation, Chronic

Liver

Periportal
Bile Duct

Fibrosis
Hyperplasia, Nos
Hyperplasia, Plasma Cell
Lymphangiectasis

Lymph node

Mandibular Lymph Node
Mandibular Lymph Node
Mediastinal Lymph Node

Pigmentation, Nos
Adenoma, Nos
Inflammation, Acute/Chronic
Hemosiderosis

Pituitary gland
Prostate

Spleen

Testis

Urinary bladder

Submucosa

Interstitial-Cell Tumor
Hemorrhage
Inflammation, Acute
Squamous Cell Carcinoma

Zymbal gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_582

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Bone	Sternum	Myelosclerosis
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Cast, Nos
		Inflammation, Chronic
Parathyroid gland		Hyperplasia, Nos
Preputial gland		Cystic Ducts
		Inflammation, Acute/Chronic
Spleen		Hemosiderosis
Stomach		Ulcer, Acute
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified		Fibroma
	Multiple Organs Nos	Mineralization
Urinary bladder		Necrosis, Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_583

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Epididymis		Inflammation, Acute/Chronic
		Necrosis, Fat
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
		Hepatocellular Carcinoma
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos
Spleen		Fibrosis, Focal
Stomach		Acanthosis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_584

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Pigmentation, Nos
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Malignant
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_585

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty Pheochromocytoma
Eye	Retina	Cataract Degeneration, Nos Hemorrhage
Heart	Myocardium Nos	Inflammation, Chronic Fibrosis
Kidney		Cast, Nos Cyst, Nos Inflammation, Chronic
Liver	Periportal Bile Duct	Degeneration, Cystic Fibrosis Hyperplasia, Nos
Lymph node	Mediastinal Lymph Node Mesenteric Lymph Node	Hemorrhage Pigmentation, Nos
Mammary gland		Adenoma, Nos
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Prostate		Hyperplasia, Focal
Skin	Back Chest	Keratoacanthoma Squamous Cell Papilloma
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_586

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Esophagus		Hyperkeratosis
Heart	Myocardium Nos	Fibrosis
Intestine Large	Cecum, Colon	Parasitism
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Fibrosis
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mandibular Lymph Node	Lymphangiectasis
Nasal cavity		Hemorrhage
		Inflammation, Acute
Skin	Mouth	Squamous Cell Papilloma
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_587

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Fibrosis
		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Mammary gland		Dilatation, Ducts
		Galactocele
Pancreas		Acinar-Cell Adenoma
	Islets	Islet-Cell Adenoma
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Stomach	Submucosa	Edema, Nos
		Inflammation, Acute
		Ulcer, Acute
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_588

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Liver		Necrosis, Coagulative
Lung		Abscess, Chronic
Spleen		Hemosiderosis
Unspecified	Multiple Organs Nos	Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_589

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Bone	Skull	Hyperostosis
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Degeneration, Cystic
Liver	Periportal	Fibrosis
		Focal Cellular Change
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
Unspecified	Back	Fibroma
	Head	Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_590

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain	Ventricle	Dilatation, Nos
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Inflammation, Chronic Focal
		Pigmentation, Nos
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
	Pancreatic Lymph Node	Pigmentation, Nos
Mammary gland		Fibroadenoma
Pancreas	Islets	Islet-Cell Carcinoma
Pituitary gland		Adenoma, Nos
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_591

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Ileocolic Lymph Node	Lymphangiectasis
	Mandibular Lymph Node	Pigmentation, Nos
	Mediastinal Lymph Node	Pigmentation, Nos
Spleen		Necrosis, Ischemic
Stomach		Acanthosis
	Submucosa	Edema, Nos
		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_592

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pituitary gland		Hyperplasia, Focal
Testis		Interstitial-Cell Tumor
Unspecified	Shoulder	Osteosarcoma
	Multiple Organs Nos	Osteosarcoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_593

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Intestine Small	Ileum	Leiomyosarcoma
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Fibrosis
		Focal Cellular Change
		Neoplastic Nodule
Lung		Congestion, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Spleen		Fibrosis, Focal
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_594

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Lymph node

Pancreas

Spleen

Testis

Zymbal gland

Mandibular Lymph Node

Ileocolic Lymph Node

Cast, Nos

Hyperplasia, Plasma Cell

Lymphangiectasis

Acinar-Cell Adenoma

Hematopoiesis

Granuloma, Spermatic

Interstitial-Cell Tumor

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_595

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye	Retina	Cataract Degeneration, Nos Inflammation, Chronic
Kidney		Cast, Nos Inflammation, Chronic
Liver	Periportal	Degeneration, Cystic Fibrosis
Lymph node	Mandibular Lymph Node Mediastinal Lymph Node Mediastinal Lymph Node Pancreatic Lymph Node	Hyperplasia, Plasma Cell Hyperplasia, Plasma Cell Pigmentation, Nos Pigmentation, Nos
Pancreas	Islets	Islet-Cell Carcinoma
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_596

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Bone	Rib	Sarcoma, Nos
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Large	Colon	Hyperplasia, Lymphoid
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Mammary gland		Fibroadenoma
Pancreas	Islets	Islet-Cell Adenoma
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_597

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Intestine Large	Colon	Hyperplasia, Lymphoid
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver	Periportal	Fibrosis
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Interstitial
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Thorax	Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_598

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel	Aorta Nos	Mineralization
	Coronary Artery Nos	Mineralization
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Mineralization
Kidney		Cast, Nos
		Inflammation, Chronic
		Nephrosis, Hydro
Liver		Metamorphosis, Fatty
Lymph node	Mandibular Lymph Node	Hemorrhage
	Mesenteric Lymph Node	Hemorrhage
	Mandibular Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Angiectasis
Testis		Interstitial-Cell Tumor
Unspecified	Orbital Region	Osteosarcoma
	Multiple Organs Nos	Osteosarcoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_599

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Bone	Skull	Hyperostosis
Eye		Cataract
	Retina	Degeneration, Nos
		Inflammation, Chronic
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver	Periportal	Fibrosis
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mediastinal Lymph Node	Pigmentation, Nos
Parathyroid gland		Hyperplasia, Nos
Preputial gland		Carcinoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Back	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_600

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Liver		Hemorrhage
		Metamorphosis, Fatty
Lung		Abscess, Chronic
		Bronchiectasis
	Pleura Nos	Fibrosis
		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Hyperplasia, Lymphoid
	Mediastinal Lymph Node	Hyperplasia, Plasma Cell
	Mesenteric Lymph Node	Pigmentation, Nos
Spleen		Hematopoiesis
Stomach		Acanthosis
Unspecified	Diaphragm Nos	Adhesion, Nos
	Diaphragm Nos	Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_601

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
		Hyperplasia, Focal
Lung		Hyperplasia, Alveolar Epithelium
		Inflammation, Chronic
Lymph node	Iliac Lymph Node	Lymphangiectasis
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic
	Multiple Organs Nos	Pigmentation, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_602

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Necrosis, Coagulative
		Neoplastic Nodule
Lung		Congestion, Nos
Lymph node	Mediastinal Lymph Node	Congestion, Nos
	Mediastinal Lymph Node	Hemorrhage
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Pituitary gland		Angiectasis
Prostate		Abscess, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_603

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Esophagus		Hyperkeratosis
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Hyperplasia, Plasma Cell
	Mesenteric Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Parathyroid gland		Hyperplasia, Nos
Prostate		Inflammation, Acute/Chronic
Stomach	Submucosa	Edema, Nos
		Inflammation, Acute
Testis		Ulcer, Acute
Thyroid		Interstitial-Cell Tumor
		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_604

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Pancreas	Islets	Islet-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Prostate		Inflammation, Acute/Chronic
Stomach		Acanthosis
		Inflammation, Acute/Chronic
		Ulcer, Perforated
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic
	Flank	Sarcoma, Nos
	Flank	Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_605

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Esophagus		Abscess, Chronic
		Fibrosarcoma
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
		Mineralization
Liver		Focal Cellular Change
Lung		Abscess, Chronic
Lymph node	Pancreatic Lymph Node	Hyperplasia, Lymphoid
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Lymphangiectasis
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Diaphragm Nos	Hernia, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_606

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Angiectasis
		Degeneration, Cystic
		Focal Cellular Change
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mesenteric Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Mammary gland		Fibroadenoma
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_607

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Blood vessel	Sup.Panc-Duod.Artery	Periarteritis
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Fibrosis
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mediastinal Lymph Node	Pigmentation, Nos
	Mesenteric Lymph Node	Pigmentation, Nos
Pancreas		Necrosis, Fibrinoid
Prostate		Hyperplasia, Focal
		Inflammation, Acute/Chronic
Skin	Axilla	Keratoacanthoma
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_608

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Ear		Inflammation, Acute/Chronic
Heart	Myocardium Nos	Fibrosis
Intestine Large	Colon	Hyperplasia, Lymphoid
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Fibrosis
		Focal Cellular Change
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos
Mammary gland		Fibroadenoma
Prostate		Inflammation, Acute/Chronic
Spleen		Hemosiderosis
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Tongue		Ectopia

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_609

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Liver

Lung

Pituitary gland

Prostate

Testis

Thyroid

Unspecified

Retina

Myocardium Nos

Flank

Pheochromocytoma

Cataract

Degeneration, Nos

Fibrosis

Cast, Nos

Inflammation, Chronic

Degeneration, Cystic

Inflammation, Chronic

Inflammation, Interstitial

Hyperplasia, Focal

Inflammation, Acute/Chronic

Interstitial-Cell Tumor

Cystic Follicles

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_610

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Eye		Cataract
	Retina	Degeneration, Nos
	Cornea	Inflammation, Acute
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Degeneration, Cystic
Lung		Inflammation, Chronic
		Inflammation, Interstitial
Lymph node	Celiac Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Lymphangiectasis
Mammary gland		Fibroadenoma
Parathyroid gland		Hyperplasia, Nos
Prostate		Inflammation, Suppurative
Spleen		Hemosiderosis
Stomach		Inflammation, Acute Focal
Testis		Interstitial-Cell Tumor
Urinary bladder		Hemorrhage
		Inflammation, Acute/Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_611

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Nephrosis, Hydro
Liver	Periportal	Fibrosis
		Focal Cellular Change
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hyperplasia, Reticulum Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Skin	Hip	Keratoacanthoma
Stomach		Acanthosis
Testis		Degeneration, Nos
	Tunica Vaginalis	Mesothelioma, Malignant
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Mesothelioma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_612

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Brain		Carcinoma, Nos, Invasive
Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Lung		Inflammation, Chronic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mesenteric Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland		Carcinoma, Nos
Prostate		Inflammation, Acute/Chronic
Seminal vesicle		Inflammation, Acute/Chronic
Skin	Back	Keratoacanthoma
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma
Unspecified	Diaphragm Nos	Hernia, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_613

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mesenteric Lymph Node	Pigmentation, Nos
Skeletal muscle	Leg	Rhabdomyosarcoma
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_614

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Cortical Adenoma

Bone

Mandible

Pheochromocytoma

Heart

Myocardium Nos

Squamous Cell Carcinoma

Kidney

Fibrosis

Cast, Nos

Liver

Bile Duct

Inflammation, Chronic

Hyperplasia, Nos

Lymph node

Mandibular Lymph Node

Inflammation, Acute

Hyperplasia, Plasma Cell

Mammary gland

Mesenteric Lymph Node

Pigmentation, Nos

Pituitary gland

Fibroadenoma

Testis

Angiectasis

Thyroid

Interstitial-Cell Tumor

Tongue

C-Cell Adenoma

Edema, Nos

Inflammation, Acute

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_615

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Liver

Hepatitis, Toxic

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_616

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Epididymis		Necrosis, Fat Steatitis
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos Inflammation, Chronic
Liver		Hyperplasia, Nos
Lung		Congestion, Nos Inflammation, Chronic Inflammation, Suppurative
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Oral mucosa	Palate	Squamous Cell Papilloma
Pancreas		Acinar-Cell Adenoma
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Axilla Nos	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_617

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Epididymis		Steatitis
Heart	Myocardium Nos	Fibrosis
Intestine Large	Cecum, Colon	Hyperplasia, Lymphoid
	Colon	Hyperplasia, Lymphoid
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Degeneration, Cystic
	Periportal	Fibrosis
		Focal Cellular Change
Lung		Inflammation, Chronic
Lymph node	Pancreatic Lymph Node	Hyperplasia, Lymphoid
	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mandibular Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
	Renal Lymph Node	Pigmentation, Nos
Mammary gland		Fibroadenoma
Spleen		Necrosis, Focal
Testis		Interstitial-Cell Tumor
Unspecified	Neck	Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_618

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mediastinal Lymph Node	Pigmentation, Nos
Prostate		Abscess, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_619

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Thrombus, Fibrin
Lung		Congestion, Nos
		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Congestion, Nos
	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pancreas	Islets	Islet-Cell Carcinoma
Prostate		Inflammation, Acute/Chronic
Seminal vesicle		Inflammation, Acute
Spleen	Follicles	Atrophy, Nos
		Hemosiderosis
Testis		Interstitial-Cell Tumor
Urinary bladder		Hemorrhage
		Inflammation, Acute

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_620

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney

Cortex Nos

Metamorphosis, Fatty
Cast, Nos

Liver

Inflammation, Chronic
Pigmentation, Nos

Lung

Focal Cellular Change
Hepatitis, Toxic

Lymph node

Mandibular Lymph Node
Mesenteric Lymph Node

Hyperplasia, Alveolar Epithelium
Inflammation, Chronic

Mammary gland

Hyperplasia, Plasma Cell
Lymphangiectasis

Pituitary gland

Galactocele

Testis

Adenoma, Nos

Thyroid

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

C-Cell Adenoma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_621

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Medulla
Myocardium Nos

Liver
Lung

Prostate
Spleen
Testis
Thyroid

Hyperplasia, Focal
Fibrosis
Cast, Nos
Inflammation, Chronic
Congestion, Nos
Congestion, Nos
Inflammation, Chronic
Inflammation, Acute/Chronic
Hemosiderosis
Interstitial-Cell Tumor
Cystic Follicles

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_622

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Liver

Preputial gland

Prostate

Spleen

Testis

Pheochromocytoma

Cast, Nos

Inflammation, Chronic

Degeneration, Cystic

Focal Cellular Change

Carcinoma, Nos

Hyperplasia, Focal

Fibrosis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_623

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Metamorphosis, Fatty
Lung		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Spleen		Hemosiderosis
Testis		Interstitial-Cell Tumor
Unspecified	Shoulder	Rhabdomyosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_624

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Lung

Lymph node

Prostate

Testis

Thyroid

Zymbal gland

Mediastinal Lymph Node

Mediastinal Lymph Node

Hematopoiesis

Squamous Cell Carcinoma, Metastatic

Hyperplasia, Plasma Cell

Pigmentation, Nos

Inflammation, Acute/Chronic

Hyperplasia, Interstitial Cell

Hyperplasia, C Cell

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_625

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Cataract
	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Intestine Small	Ileum, Ileum	Leiomyoma
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
		Hepatitis, Toxic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_626

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Intestine Large	Colon	Hyperplasia, Lymphoid
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
		Neoplastic Nodule
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Pancreatic Lymph Node	Pigmentation, Nos
Pancreas		Acinar-Cell Adenoma
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_627

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Cortex Nos
Myocardium Nos

Liver

Metamorphosis, Fatty
Fibrosis
Cast, Nos
Inflammation, Chronic
Congestion, Nos

Lung
Pituitary gland

Metamorphosis, Fatty
Inflammation, Chronic

Prostate
Spleen
Stomach

Adenoma, Nos
Inflammation, Acute/Chronic
Hemosiderosis
Acanthosis

Testis

Submucosa

Edema, Nos
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_628

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Brain		Gliosis
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lymph node	Mesenteric Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Neck	Sarcoma, Nos
	Groin	Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_629

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Eye	Retina	Degeneration, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Pigmentation, Nos
Liver		Degeneration, Cystic
	Periportal	Fibrosis
		Focal Cellular Change
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mesenteric Lymph Node	Hyperplasia, Lymphoid
	Mesenteric Lymph Node	Pigmentation, Nos
Spleen		Congestion, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_630

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Intestine Small

Kidney

Lymph node

Testis

Unspecified

Myocardium Nos

Mesentery Nos

Mesentery Nos

Mediastinal Lymph Node

Mediastinal Lymph Node

Multiple Organs Nos

Pheochromocytoma

Fibrosis

Hemorrhage

Inflammation, Chronic Focal

Cast, Nos

Inflammation, Chronic

Hemorrhage

Pigmentation, Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_631

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney

Cortex Nos

Metamorphosis, Fatty
Cast, Nos

Liver

Inflammation, Chronic
Focal Cellular Change
Neoplastic Nodule

Lung

Lymph node

Mesenteric Lymph Node

Inflammation, Chronic
Lymphangiectasis

Prostate

Squamous Cell Carcinoma

Seminal vesicle

Squamous Cell Carcinoma, Invasive

Skin

Fibroma

Spleen

Fibrosis, Focal

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Carcinoma

Unspecified

Back

Hyperplasia, Focal

Back

Inflammation, Acute

Multiple Organs Nos

Leukemia, Monocytic

Back

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_632

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Esophagus

Inflammation, Chronic

Metaplasia, Osseous

Heart

Epicardium

Inflammation, Acute

Kidney

Cast, Nos

Liver

Congestion, Nos

Lung

Inflammation, Suppurative

Squamous Cell Carcinoma, Metastatic

Lymph node

Mediastinal Lymph Node

Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_633

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Epicardium	Inflammation, Acute
Lung		Inflammation, Granulomatous Focal
Lymph node	Mesenteric Lymph Node	Hyperplasia, Plasma Cell
Stomach		Acanthosis
Unspecified	Thoracic Cavity Nos	Abscess, Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_634

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver		Degeneration, Cystic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Celiac Lymph Node	Lymphangiectasis
	Mandibular Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Pigmentation, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Cystic Follicles
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_635

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Angiectasis
		Degeneration, Cystic
		Hepatitis, Toxic
		Hyperplasia, Nos
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Hyperplasia, Plasma Cell
	Mesenteric Lymph Node	Lymphangiectasis
	Mediastinal Lymph Node	Pigmentation, Nos
	Pancreatic Lymph Node	Pigmentation, Nos
Stomach		Acanthosis
	Submucosa	Edema, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Back	Keratoacanthoma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_636

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain	Cerebellum Nos	Granular-Cell Tumor, Nos
Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Lymphangiectasis
	Mesenteric Lymph Node	Lymphangiectasis
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_637

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Liver		Hepatitis, Toxic
Lung		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_638

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Fibrosis

Kidney

Cast, Nos

Inflammation, Chronic

Pigmentation, Nos

Lung

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_639

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
		Nephrosis, Hydro
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mesenteric Lymph Node	Pigmentation, Nos
Pancreas		Atrophy, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Abdominal Cavity	Osteosarcoma
	Multiple Organs Nos	Osteosarcoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_640

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Intestine Small	Mesentery Nos	Inflammation, Chronic
	Mesentery Nos	Necrosis, Fat
Kidney		Cast, Nos
		Inflammation, Chronic
Liver	Periportal	Fibrosis
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
	Pancreatic Lymph Node	Hyperplasia, Plasma Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Pancreas		Acinar-Cell Adenoma
Seminal vesicle		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_641

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Fibrosis
Kidney		Cast, Nos
		Inflammation, Chronic
Lung		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Skin	Shoulder	Keratoacanthoma
Testis		Interstitial-Cell Tumor
Unspecified	Foot Nos	Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

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

Date Report Requested: 10/26/2014
Time Report Requested: 14:30:44
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_642

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Blood vessel	Aorta Nos	Mineralization
	Coronary Artery Nos	Mineralization
Epididymis		Inflammation, Chronic
Heart	Myocardium Nos	Inflammation, Chronic
	Myocardium Nos	Mineralization
Kidney		Cast, Nos
		Cyst, Nos
		Inflammation, Chronic
Liver	Periportal	Fibrosis
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Interstitial
Lymph node	Pancreatic Lymph Node	Hyperplasia, Reticulum Cell
	Mediastinal Lymph Node	Pigmentation, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute/Chronic
Testis		Degeneration, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_643

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Liver

Testis

Cast, Nos

Leukemia, Monocytic

Metamorphosis, Fatty

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_644

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lymph node

Pancreas

Parathyroid gland

Prostate

Testis

Unspecified

Myocardium Nos

Periportal

Mediastinal Lymph Node

Mediastinal Lymph Node

Islets

Multiple Organs Nos

Pheochromocytoma

Fibrosis

Cast, Nos

Inflammation, Chronic

Angiectasis

Fibrosis

Hemorrhage

Pigmentation, Nos

Islet-Cell Carcinoma

Hyperplasia, Nos

Inflammation, Acute/Chronic

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

Experiment Number: C61234A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, chrysotile(IR)

CAS Number: 12001-29-5

Date Report Requested: 10/26/2014

Time Report Requested: 14:30:44

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_645

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain	Cerebrum	Astrocytoma
Heart	Myocardium Nos	Fibrosis
Liver		Focal Cellular Change
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mesenteric Lymph Node	Hyperplasia, Lymphoid
Prostate		Inflammation, Acute/Chronic
Stomach	Submucosa	Edema, Nos
		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****