

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

C Number: C60253A

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Male

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_192

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|-----------|--------------------------------|
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| Unspecified | Ear | Fibrosarcoma |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_193

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|---------------|------------------------|--------------------------------|
| Adrenal gland | | Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Nos |
| | | Metamorphosis, Fatty |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Mammary gland | | Fibroadenoma |
| Skin | Lip Nos | Basal-Cell Tumor |
| Spleen | | Hematopoiesis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:24
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_194

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|---|
| Adrenal gland | | Metamorphosis, Fatty Pheochromocytoma |
| Eye | Retina | Cataract Degeneration, Nos |
| | Cornea | Inflammation, Chronic Focal |
| | Cornea | Mineralization |
| Kidney | Cortex | Phthisis Bulbi Cyst, Nos Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | Bile Duct | Focal Cellular Change Hyperplasia, Nos Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Pancreatic Lymph Node | Hyperplasia, Reticulum Cell |
| | Pancreatic Lymph Node | Pigmentation, Nos |
| Pancreas | Islets | Islet-Cell Adenoma |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Angiectasis |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Back | Cyst, Epidermal Inclusion |
| Testis | | Interstitial-Cell Tumor |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:24
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_195

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 |
| Kidney | | Inflammation, Chronic |
| Liver | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pituitary gland | | Adenoma, Nos |
| Skin | | Keratoacanthoma |
| Spleen | | Hemosiderosis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Ulcer, Perforated |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic Focal |
| | Chest | Lipoma |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:24
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_196

TRT#: 1
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 | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos |
| | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | | Osteosarcoma |
| Lung | | Osteosarcoma, Metastatic |
| Mammary gland | | Fibroadenoma |
| Parathyroid gland | | Hyperplasia, Nos |
| Spleen | | Hemosiderosis |
| Stomach | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_197

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Cortex Nos

Necrosis, Diffuse

Kidney

Myocardium Nos

Inflammation, Chronic Diffuse

Liver

Inflammation, Chronic

Focal Cellular Change

Lung

Bile Duct

Hyperplasia, Nos

Mammary gland

Inflammation, Chronic

Preputial gland

Fibroadenoma

Spleen

Carcinoma, Nos

Testis

Hematopoiesis

Thyroid

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_198

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------|
| Adrenal gland | | Pheochromocytoma |
| | | Pheochromocytoma, Malignant |
| Bone | Tibia | Neurofibrosarcoma |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Kidney | Cortex | Cyst, Nos |
| Liver | | Degeneration, Nos |
| | Bile Duct | Fibrosis |
| | | Focal Cellular Change |
| | | Pigmentation, Nos |
| Lung | | Neurofibrosarcoma, Metastatic |
| Lymph node | Renal Lymph Node | Hyperplasia, Reticulum Cell |
| | Renal Lymph Node | Pigmentation, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Skin | Tail | Acanthosis |
| | Tail | Hyperkeratosis |
| Spleen | | Fibrosis, Focal |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic |
| | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:24
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_199

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Eye | Retina | Cataract Degeneration, Nos Hemorrhage Synechia, Posterior |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | Tubule | Pigmentation, Nos |
| Liver | | Neoplastic Nodule |
| Lung | | Granuloma, Nos |
| Lymph node | Iliac Lymph Node | Hyperplasia, Lymphoid |
| | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Iliac Lymph Node | Lymphangiectasis |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Abscess, Nos Inflammation, Chronic Diffuse |
| Spleen | Follicles | Atrophy, Focal Hematopoiesis |
| Testis | | Hyperplasia, Interstitial Cell |
| Unspecified | Multiple Organs Nos | Interstitial-Cell Tumor |
| Urinary bladder | | Inflammation, Chronic Hyperplasia, Epithelial |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:24
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_200

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|-------------------------------|
| Adrenal gland | Cortex Nos | Angiectasis |
| | Medulla | Hyperplasia, Focal |
| Eye | Retina | Cataract |
| | | Degeneration, Nos |
| Heart | Myocardium Nos | Hemorrhage |
| Kidney | | Inflammation, Chronic Diffuse |
| Liver | | Inflammation, Chronic |
| | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Ileocolic Lymph Node | Lymphangiectasis |
| Pancreas | | Atrophy, Focal |
| | Islets | Hyperplasia, Focal |
| | Islets | Islet-Cell Carcinoma |
| Spleen | | Hematopoiesis |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_201

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|---|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Brain | Cerebrum | Astrocytoma |
| Eye | Retina | Cataract Degeneration, Nos Hemorrhage |
| Heart | Cornea | Inflammation, Chronic Focal |
| Intestine Large | Myocardium Nos | Inflammation, Chronic Focal |
| | Colon | Hyperplasia, Papillary |
| | Colon | Inflammation, Acute Focal |
| | Colon | Necrosis, Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Acinar-Cell Carcinoma Atrophy, Focal |
| Parathyroid gland | | Adenoma, Nos |
| Stomach | | Acanthosis |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Unspecified | Flank | Fibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:24
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_202

TRT#: 1
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|--|---|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Blood vessel | Sup.Panc-Duod.Artery Sup.Panc-Duod.Artery | Periarteritis Thrombosis, Nos |
| Eye | Retina Iris Cornea | Cataract Degeneration, Nos Hemorrhage Mineralization |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos |
| Lung | Bile Duct | Hyperplasia, Nos Congestion, Nos Inflammation, Chronic |
| Mammary gland | | Cystic Ducts |
| Parathyroid gland | | Adenoma, Nos |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Mineralization Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:24
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_203

TRT#: 1
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 | Inflammation, Chronic Diffuse |
| Intestine Large | Cecum, Colon | Leiomyosarcoma |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Metamorphosis, Fatty |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Fibroadenoma |
| | | Hyperplasia, Diffuse |
| Pancreas | | Ectopia |
| | Islets | Islet-Cell Adenoma |
| Pituitary gland | | Adenoma, Nos |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_204

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|---------------------|---|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Acanthosis |
| Testis | | Inflammation, Chronic Hyperplasia, Interstitial Cell |
| Unspecified | Multiple Organs Nos | Interstitial-Cell Tumor Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_205

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-------------------|-----------------------------|
| Blood vessel | Aorta Nos | Mineralization |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| | Myocardium Nos | Mineralization |
| Intestine Large | Muscularis, Colon | Degeneration, Nos |
| Kidney | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| Liver | Tubule | Pigmentation, Nos |
| Lung | Bile Duct | Hyperplasia, Nos |
| | | Granuloma, Nos |
| Parathyroid gland | | Inflammation, Chronic |
| Pituitary gland | | Hyperplasia, Nos |
| | | Adenoma, Nos |
| Prostate | | Angiectasis |
| | | Hyperplasia, Focal |
| Stomach | Muscularis | Inflammation, Chronic Focal |
| | | Degeneration, Nos |
| | | Hyperkeratosis |
| | Fundus | Hyperplasia, Diffuse |
| | | Mineralization |
| Testis | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:24
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_206

TRT#: 1
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 | Inflammation, Chronic Focal |
| Kidney | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Leukemia, Monocytic |
| | | Necrosis, Focal |
| | | Neoplastic Nodule |
| Lung | Bronchus | Bronchiectasis |
| | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Pancreas | | Acinar-Cell Adenoma |
| Prostate | | Hyperplasia, Focal |
| | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_207

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Epididymis | | Necrosis, Fat |
| Eye | Retina | Cataract Degeneration, Nos Synechia, Posterior |
| Kidney | Cortex | Cyst, Nos |
| Liver | Bile Duct | Fibrosis Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos Leukemia, Monocytic Pigmentation, Nos |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Abscess, Nos Hyperplasia, Focal |
| Stomach | | Acanthosis Hyperkeratosis Necrosis, Focal Ulcer, Perforated |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_208

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|----------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Lung | | Sarcoma, Nos, Metastatic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Neck | Sarcoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_209

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Testis

Inflammation, Chronic

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_210

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|---------------|------------------------|--|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | Tubule | Inflammation, Chronic Pigmentation, Nos |
| Liver | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hyperplasia, Reticulum Cell |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Testis | | Degeneration, Nos Interstitial-Cell Tumor |
| | Tunica Vaginalis | Mesothelioma, Malignant |
| Unspecified | Multiple Organs Nos | Mesothelioma, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:24
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_211

TRT#: 1
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|--|--|
| Adrenal gland | Cortex Nos Medulla Cortex Nos | Hyperplasia, Focal Hyperplasia, Focal Metamorphosis, Fatty Pheochromocytoma |
| Eye | Retina Crystalline Lens | Cataract Degeneration, Nos Rupture Synechia, Posterior Vascularization |
| Heart | Vitreous Body Myocardium Nos Atrium | Inflammation, Chronic Diffuse Thrombosis, Nos |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node Renal Lymph Node Mediastinal Lymph Node Renal Lymph Node | Erythrophagocytosis Lymphangiectasis Pigmentation, Nos Pigmentation, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Skin | Nose | Acanthosis |
| Spleen | | Hematopoiesis |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Flank | Neurofibroma |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_212

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|----------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| Unspecified | | Interstitial-Cell Tumor |
| | | Fibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:24
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_213

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Granuloma, Nos |
| | | Pigmentation, Nos |
| Lung | | Sarcoma, Nos, Metastatic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Atrophy, Focal |
| Pituitary gland | | Angiectasis |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Fibrosis, Focal |
| Stomach | | Inflammation, Chronic |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| | Neck | Sarcoma, Nos |
| | Multiple Organs Nos | Sarcoma, Nos, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:24
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_214

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|------------------------|--|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| | Cardiac Valve | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Alveolar/Bronchiolar Carcinoma |
| Lymph node | Mediastinal Lymph Node | Alveolar/Bronchiolar Carcinoma, Invasive |
| | Mesenteric Lymph Node | Lymphangiectasis |
| Mammary gland | | Galactocele |
| Pancreas | Islets | Islet-Cell Adenoma |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Mediastinum Nos | Alveolar/Bronchiolar Carcinoma, Invasive |
| | Back | Neurofibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_215

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Oral mucosa | | Acanthosis |
| | | Fibrous Osteodystrophy |
| | | Hyperkeratosis |
| Prostate | Coagulating Gland | Cyst, Nos |
| | | Inflammation, Chronic Focal |
| Seminal vesicle | | Cyst, Nos |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| | | Cyst, Follicular Nos |
| Unspecified | Abdominal Cavity | Necrosis, Fat |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_216

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lung

Mammary gland

Prostate

Spleen

Testis

Thyroid

Unspecified

Urinary bladder

Myocardium Nos

Bile Duct

Bile Duct

Multiple Organs Nos

Pheochromocytoma

Inflammation, Chronic Focal

Inflammation, Chronic

Fibrosis

Hyperplasia, Nos

Neoplastic Nodule

Inflammation, Chronic

Fibroadenoma

Abscess, Nos

Inflammation, Chronic Diffuse

Fibrosis, Focal

Hemosiderosis

Interstitial-Cell Tumor

Follicular-Cell Adenoma

Hyperplasia, C Cell

Leukemia, Monocytic

Inflammation, Chronic Diffuse

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_217

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Lung

Parathyroid gland

Stomach

Myocardium Nos

Pheochromocytoma

Inflammation, Chronic Focal

Inflammation, Chronic

Inflammation, Chronic

Hyperplasia, Nos

Acanthosis

Hyperkeratosis

Inflammation, Chronic Focal

Necrosis, Focal

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: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_218

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Degeneration, Nos

Kidney

Inflammation, Chronic

Liver

Necrosis, Focal

Lung

Inflammation, Chronic

Pancreas

Islets

Islet-Cell Adenoma

Spleen

Hematopoiesis

Testis

Hyperplasia, Interstitial Cell

Unspecified

Interstitial-Cell Tumor

Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_219

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|---------------------|--------------------------------|
| Heart | Myocardium Nos | Fibrosis, Multifocal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Fibrosis |
| | | Focal Cellular Change |
| | | Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Neoplastic Nodule |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_220

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Heart | Myocardium Nos | Fibrosis, Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Granuloma, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Atrophy, Diffuse |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | | Fibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_221

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|------------------------|-------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Erythrophagocytosis |
| | Mesenteric Lymph Node | Erythrophagocytosis |
| Mammary gland | | Adenocarcinoma, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Skin | Back | Basal-Cell Carcinoma |
| | Back | Squamous Cell Carcinoma |
| Spleen | Follicles | Atrophy, Nos |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic |
| | | Ulcer, Perforated |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:24
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_222

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|-------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Metamorphosis, Fatty |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Pancreatic Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Cystic Ducts |
| | | Galactocele |
| Pancreas | Islets | Islet-Cell Adenoma |
| Prostate | | Inflammation, Chronic Diffuse |
| Skin | Foot And Toe Nos | Abscess, Nos |
| Spleen | | Hemosiderosis |
| Stomach | | Acanthosis |
| | | Hemorrhage |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| | | Ulcer, Perforated |
| Testis | | Degeneration, Nos |
| | | Periarteritis |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:24
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_223

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|--|
| Adrenal gland | | Hemorrhage Mineralization Necrosis, Focal Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos Degeneration, Nos Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Alveolar/Bronchiolar Adenoma Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Atrophy, Focal |
| Spleen | | Fibrosis, Focal |
| Stomach | | Acanthosis Hyperkeratosis Inflammation, Chronic Focal Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| | Multiple Organs Nos | Lymphangiectasis |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_224

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|-------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mandibular Lymph Node | Lymphangiectasis |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Flank | Fibroma |
| | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_225

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|------------|-----------------------|--------------------------------|
| Brain | Cerebrum | Astrocytoma |
| | Cerebellum Nos | Astrocytoma, Invasive |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Fibrosis |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Nos |
| Pancreas | | Atrophy, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Urethra | Urethral Gland | Hyperplasia, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_226

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Inflammation, Chronic

Liver

Hepatitis, Toxic

Stomach

Inflammation, Chronic

Testis

Necrosis, Focal

Thyroid

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Follicular-Cell Carcinoma

Lymphoma, Histiocytic-Malignant Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_227

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------------------|---|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Kidney | Tubule | Inflammation, Chronic Pigmentation, Nos |
| Liver | Bile Duct Bile Duct Bile Duct | Fibrosis Hyperplasia, Nos Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Cystic Ducts |
| Pituitary gland | | Adenoma, Nos |
| Stomach | | Inflammation, Chronic Focal Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_228

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Bone | Vertebral Column | Liposarcoma |
| Bone marrow | | Liposarcoma, Invasive |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Liver | | Focal Cellular Change |
| | | Metamorphosis, Fatty |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Pancreatic Lymph Node | Hyperplasia, Reticulum Cell |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Diffuse |
| Spinal cord | Cauda Equina | Liposarcoma, Invasive |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Ulcer, Perforated |
| Testis | | Periarteritis |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic |
| | Flank | Lipoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_229

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|-----------------------|--------------------------------|
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | Bile Duct | Fibrosis |
| | | Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Angiectasis |
| | Mandibular Lymph Node | Hemorrhage |
| | Ileocolic Lymph Node | Lymphangiectasis |
| Pancreas | | Atrophy, Diffuse |
| | Islets | Hyperplasia, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_230

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lung

Lymph node

Pancreas

Parathyroid gland

Prostate

Spleen

Stomach

Myocardium Nos

Bile Duct

Mandibular Lymph Node

Islets

Fundus

Pheochromocytoma

Inflammation, Chronic Focal

Inflammation, Chronic

Hyperplasia, Nos

Inflammation, Chronic

Hyperplasia, Lymphoid

Islet-Cell Adenoma

Hyperplasia, Nos

Inflammation, Chronic Focal

Hemosiderosis

Acanthosis

Hyperkeratosis

Hyperplasia, Diffuse

Mineralization

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_231

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|-------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Fibroadenoma |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Inflammation, Chronic Diffuse |
| Skin | Back | Keratoacanthoma |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:24
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_232

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Epididymis | | Necrosis, Fat |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Inflammation, Chronic Focal |
| | Cecum, Colon | Necrosis, Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Prostate | | Lipoma |
| Skin | Back | Cyst, Epidermal Inclusion |
| Stomach | | Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_233

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|-------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Small | Jejunum | Mucinous Cystadenocarcinoma |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Fibrosis |
| | Bile Duct | Hyperplasia, Nos |
| | | Metamorphosis, Fatty |
| Lymph node | Mediastinal Lymph Node | Congestion, Nos |
| | Ileocolic Lymph Node | Hyperplasia, Lymphoid |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:24

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_234

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Bone marrow | | Hyperplasia, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos |
| | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | Islets | Islet-Cell Adenoma |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_235

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 |
| | Cornea | Inflammation, Chronic Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Acinar-Cell Adenoma |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Back | Fibrosarcoma |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_236

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Bone | Skull | Osteoma |
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Atrophy, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | | Granuloma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_237

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| | Atrium | Thrombosis, Nos |
| Intestine Large | Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Fibrosis |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Granuloma, Nos |
| | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Skin | Back | Acanthosis |
| | Back | Hyperkeratosis |
| Spleen | | Hematopoiesis |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Flank | Fibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_238

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|---|--|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Bone | Skull Skull | Fibrous Osteodystrophy Osteopetrosis |
| Eye | Retina Cornea | Degeneration, Nos Necrosis, Focal |
| Heart | Pericardium Nos | Pigmentation, Nos |
| Kidney | Cortex | Cyst, Nos |
| Liver | | Focal Cellular Change Granuloma, Nos |
| Lymph node | Ileocolic Lymph Node Mesenteric Lymph Node Ileocolic Lymph Node | Atrophy, Nos Hyperplasia, Reticulum Cell Lymphangiectasis |
| Pancreas | | Atrophy, Diffuse Ectopia |
| Prostate | | Abscess, Nos |
| Stomach | Fundus | Mineralization |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Ear Diaphragm Nos Multiple Organs Nos Multiple Organs Nos | Fibrosarcoma Hernia, Nos Hyperplasia, Nos Inflammation, Chronic |
| Urethra | | Metaplasia, Squamous |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_239

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Bone | Sternum | Fibrous Osteodystrophy |
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Pancreas | Acinus | Hyperplasia, Focal |
| | Islets | Islet-Cell Adenoma |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Abscess, Nos |
| Spleen | Follicles | Atrophy, Nos |
| | | Hemosiderosis |
| Stomach | | Acanthosis |
| | Muscularis | Degeneration, Nos |
| | | Mineralization |
| | | Necrosis, Focal |
| Testis | | Degeneration, Nos |
| | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Adenoma |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_240

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma Pheochromocytoma, Malignant |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Cecum, Colon | Necrosis, Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Lung | | Inflammation, Chronic Pheochromocytoma, Metastatic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Cystic Ducts |
| Pancreas | | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| Preputial gland | | Cystic Ducts |
| Skin | Nose | Squamous Cell Papilloma |
| Stomach | | Ulcer, Perforated |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor Periarteritis |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_241

TRT#: 1
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Eye | Retina Cornea | Degeneration, Nos Inflammation, Chronic Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Fibroadenoma |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Hyperplasia, Focal |
| Preputial gland | | Cystic Ducts Hyperplasia, Diffuse |
| Seminal vesicle | | Cyst, Nos |
| Skin | Back | Basal-Cell Carcinoma |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_242

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Brain | Cerebrum | Carcinoma, Nos, Invasive |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Granuloma, Nos |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Cystic Ducts |
| Pituitary gland | | Carcinoma, Nos |
| Prostate | | Inflammation, Chronic Diffuse |
| Stomach | | Inflammation, Chronic Focal |
| | | Necrosis, Nos |
| | | Ulcer, Perforated |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_243

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|--|---|
| Adrenal gland | Medulla Cortex Nos | Hyperplasia, Focal Metamorphosis, Fatty Pheochromocytoma |
| Eye | Retina Cornea | Degeneration, Nos Inflammation, Chronic Focal |
| Kidney | Cortex | Cyst, Nos |
| Liver | | Degeneration, Nos Focal Cellular Change |
| Mammary gland | | Adenoma, Nos Hyperplasia, Diffuse |
| Parathyroid gland | | Hyperplasia, Nos |
| Spleen | | Hematopoiesis |
| Stomach | Muscularis Fundus | Degeneration, Nos Hyperplasia, Diffuse |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Mediastinum Nos Multiple Organs Nos Multiple Organs Nos Multiple Organs Nos | Ectopia Inflammation, Chronic Leukemia, Monocytic Mineralization |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_244

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Fibrosis |
| | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Hemosiderosis |
| Stomach | | Acanthosis |
| | | Edema, Nos |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Axilla | Fibroma |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_245

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lung

Lymph node

Mammary gland

Pituitary gland

Spleen

Testis

Zymbal gland

Myocardium Nos

Tubule

Bile Duct

Bile Duct

Mandibular Lymph Node

Mesenteric Lymph Node

Pheochromocytoma

Inflammation, Chronic Focal

Inflammation, Chronic

Pigmentation, Nos

Hyperplasia, Nos

Inflammation, Chronic

Inflammation, Chronic

Hyperplasia, Lymphoid

Hyperplasia, Reticulum Cell

Cystic Ducts

Fibroadenoma

Adenoma, Nos

Hematopoiesis

Degeneration, Nos

Interstitial-Cell Tumor

Cystic Ducts

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_246

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|-----------------------------|
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Seminal vesicle | | Cyst, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_247

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Liver | | Focal Cellular Change |
| | | Metamorphosis, Fatty |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Cystic Ducts |
| Pancreas | Islets | Islet-Cell Adenoma |
| Parathyroid gland | | Adenoma, Nos |
| | | Hyperplasia, Nos |
| Pituitary gland | | Carcinoma, Nos |
| Testis | | Degeneration, Nos |
| | | Interstitial-Cell Tumor |
| | | Periarteritis |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic |
| | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_248

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Heart

Myocardium Nos

Inflammation, Chronic Focal

Kidney

Inflammation, Chronic

Skin

Basal-Cell Tumor

Spleen

Hematopoiesis

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Carcinoma

Follicular-Cell Carcinoma

Unspecified

Multiple Organs Nos

Hyperplasia, C Cell

Lymphoma, Histiocytic-Malignant Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_249

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|--------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Small | Mesentery Nos | Fibrosarcoma, Metastatic |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Nasal cavity | | Fibrosarcoma |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Abdominal Cavity | Necrosis, Fat |
| | Lower Leg Nos | Osteosarcoma |
| | Shoulder Nos | Osteosarcoma |
| | Abdominal Wall Nos | Osteosarcoma, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_250

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|---------------|--------------------------|--|
| Heart | Myocardium Nos Atrium | Inflammation, Chronic Diffuse Thrombosis, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Fibroadenoma |
| Pancreas | | Atrophy, Diffuse |
| Stomach | | Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| | | Follicular-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_251

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Esophagus | | Hyperkeratosis |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Ileocolic Lymph Node | Lymphangiectasis |
| Pituitary gland | | Adenoma, Nos |
| | | Cyst, Hemorrhagic |
| Prostate | | Inflammation, Chronic Focal |
| Salivary gland | | Sarcoma, Nos, Invasive |
| Stomach | | Acanthosis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Neck | Sarcoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_252

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|-------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Fibrosis |
| | Bile Duct | Granuloma, Nos |
| | | Hyperplasia, Nos |
| | | Necrosis, Focal |
| | | Pigmentation, Nos |
| | | Thrombosis, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Cervical Lymph Node Nos | Hemorrhage |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Pancreas | Duct Nos | Carcinoma, Nos |
| Pituitary gland | | Adenoma, Nos |
| Preputial gland | | Carcinoma, Nos |
| Salivary gland | | Fibrosarcoma |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Carcinoma, Nos, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_253

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|--------------------------------|--|---|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Blood vessel | Aorta Nos | Mineralization |
| Eye | Retina | Degeneration, Nos |
| Liver | | Metamorphosis, Fatty |
| Lymph node | Mandibular Lymph Node Mesenteric Lymph Node | Hyperplasia, Lymphoid Hyperplasia, Reticulum Cell |
| Mammary gland | | Fibroadenoma |
| Pancreas | | Atrophy, Focal Hyperplasia, Focal |
| Parathyroid gland | Acinus | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos Angiectasis |
| Skin | Flank | Fibrosarcoma |
| Spleen | | Fibrosis, Focal Hematopoiesis |
| Stomach | Muscularis Fundus | Degeneration, Nos Hyperplasia, Diffuse Mineralization |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Unspecified Urinary bladder | Multiple Organs Nos | Inflammation, Chronic Hyperplasia, Diffuse |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_254

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Granuloma, Nos |
| | | Metamorphosis, Fatty |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Parathyroid gland | | Hyperplasia, Nos |
| Spleen | | Hemosiderosis |
| Stomach | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Cyst, Follicular Nos |
| | | Hyperplasia, C Cell |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_255

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Rectum

Granuloma, Pyogenic

Kidney

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Nos

Lung

Metamorphosis, Fatty

Testis

Inflammation, Chronic

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_256

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|--|---|
| Adrenal gland | Cortex Nos Medulla | Angiectasis Hyperplasia, Focal Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Angiectasis Degeneration, Nos Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node Mesenteric Lymph Node | Hyperplasia, Reticulum Cell Pigmentation, Nos |
| Mammary gland | | Fibroadenoma |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| Seminal vesicle | | Mucinous Cystadenocarcinoma |
| Spleen | | Hemangiosarcoma |
| Stomach | | Acanthosis |
| Testis | | Degeneration, Nos Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Hip Nos | Osteosarcoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_257

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|---------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| | | Cyst, Follicular Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_258

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|-------------------------------------|--|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Bone | Skull Sternum | Fibrous Osteodystrophy Fibrous Osteodystrophy |
| Eye | Skull Retina Cornea Cornea | Osteopetrosis Degeneration, Nos Inflammation, Chronic Diffuse Necrosis, Focal |
| Liver | | Angiectasis Degeneration, Nos Focal Cellular Change Hyperplasia, Nos Metamorphosis, Fatty Pigmentation, Nos |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Parathyroid gland | | Hyperplasia, Nos |
| Skin | Flank | Keratoacanthoma |
| Spleen | | Fibrosis, Focal Hematopoiesis Hemosiderosis |
| Stomach | Muscularis Fundus | Degeneration, Nos Hyperplasia, Epithelial |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_259

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------|-------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Small | Mesentery Nos | Periarteritis |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Fibrosis |
| | Bile Duct | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lung | Bile Duct | Inflammation, Chronic |
| | | Congestion, Nos |
| Prostate | | Inflammation, Chronic |
| Testis | | Inflammation, Chronic Focal |
| Unspecified | | Interstitial-Cell Tumor |
| Zymbal gland | Back | Fibroma |
| | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_260

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|------------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | | Hepatitis, Toxic |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Erythrophagocytosis |
| | Ileocolic Lymph Node | Lymphangiectasis |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Prostate | | Hyperplasia, Focal |
| Spleen | | Hematopoiesis |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | | Fibroma |
| | Multiple Organs Nos | Leukemia, Monocytic |
| | Abdominal Cavity | Necrosis, Fat |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_261

TRT#: 1
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma Thrombosis, Nos |
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Small | Mesentery Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Lung | | Congestion, Nos Hemorrhage |
| Lymph node | Mesenteric Lymph Node | Inflammation, Chronic |
| Pancreas | | Hyperplasia, Reticulum Cell Acinar-Cell Adenoma Atrophy, Diffuse |
| Parathyroid gland | | Hyperplasia, Nos |
| Spleen | | Hemosiderosis |
| Stomach | | Acanthosis Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| Testis | | Ulcer, Perforated |
| Zymbal gland | | Interstitial-Cell Tumor Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_262

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Pheochromocytoma

Epididymis

Pheochromocytoma, Malignant

Heart

Myocardium Nos

Fibrosis, Diffuse

Atrium

Inflammation, Chronic Focal

Kidney

Thrombosis, Nos

Liver

Inflammation, Chronic

Lung

Focal Cellular Change

Prostate

Inflammation, Chronic

Testis

Pheochromocytoma, Metastatic

Inflammation, Chronic Focal

Unspecified

Multiple Organs Nos

Degeneration, Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_263

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|------------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| | Pancreatic Lymph Node | Pigmentation, Nos |
| Mammary gland | | Cystic Ducts |
| | | Fibroadenoma |
| Pancreas | | Acinar-Cell Adenoma |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Back | Fibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_264

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|---|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Blood vessel | Aorta Nos | Mineralization |
| Bone | | Fibrous Osteodystrophy |
| Epididymis | | Necrosis, Fat |
| Eye | Anterior Chamber | Empyema |
| | Cornea | Necrosis, Focal |
| Heart | Myocardium Nos | Mineralization |
| Intestine Large | Muscularis, Colon | Degeneration, Nos |
| Kidney | Cortex | Cyst, Nos |
| Liver | | Focal Cellular Change Metamorphosis, Fatty Neoplastic Nodule Pigmentation, Nos |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| Spleen | | Hemosiderosis Hyperplasia, Lymphoid |
| Stomach | | Acanthosis |
| | Muscularis | Degeneration, Nos |
| | | Mineralization |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_265

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Lymphoid |
| Pancreas | | Ectopia |
| Preputial gland | | Carcinoma, Nos |
| Spleen | | Hematopoiesis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_266

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|---|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Blood vessel | Aorta Nos | Mineralization |
| Bone | Skull | Fibrous Osteodystrophy |
| | Sternum | Fibrous Osteodystrophy |
| | Skull | Osteopetrosis |
| Eye | Retina | Degeneration, Nos |
| | Cornea | Inflammation, Chronic Diffuse |
| Intestine Small | Ileum, Ileum | Adenomatous Polyp, Nos |
| Kidney | Cortex | Cyst, Nos |
| Liver | | Degeneration, Nos |
| Lung | Alveoli | Histiocytosis |
| Mammary gland | | Hyperplasia, Nos |
| Pancreas | Islets | Islet-Cell Adenoma |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| Skin | Back | Keratoacanthoma |
| Spleen | | Hematopoiesis |
| Stomach | Muscularis | Degeneration, Nos Mineralization |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_267

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Pancreatic Lymph Node | Hyperplasia, Reticulum Cell |
| | Pancreatic Lymph Node | Pigmentation, Nos |
| Pancreas | | Acinar-Cell Adenoma |
| | Islets | Islet-Cell Adenoma |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Neck | Basal-Cell Carcinoma |
| | Back | Inflammation, Acute Focal |
| Stomach | | Adenocarcinoma, Nos |
| | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Back | Fibroma |
| | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_268

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|---|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | Tubule | Inflammation, Chronic Pigmentation, Nos |
| Liver | Bile Duct | Angiectasis Cyst, Nos Focal Cellular Change |
| | Bile Duct | Hyperplasia, Focal |
| | Bile Duct | Inflammation, Chronic Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | Islets | Islet-Cell Adenoma |
| Parathyroid gland | | Hyperplasia, Nos |
| Stomach | | Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Back | Fibroma |
| | Mediastinum Nos | Squamous Cell Carcinoma, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_269

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|-------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Esophagus | | Inflammation, Acute |
| | | Necrosis, Diffuse |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Small | Mucosa, Ileum | Hyperplasia, Focal |
| | Duodenum | Inflammation, Acute Focal |
| | Duodenum | Necrosis, Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hemorrhage |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Inflammation, Chronic Diffuse |
| Skin | Nose | Hyperkeratosis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic |
| | | Necrosis, Focal |
| | | Ulcer, Perforated |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_270

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|---------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Testis | | Degeneration, Nos |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_271

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|---------------------|---|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | Tubule | Pigmentation, Nos |
| Liver | | Degeneration, Nos Granuloma, Nos Hyperplasia, Nos Metamorphosis, Fatty Necrosis, Focal Pigmentation, Nos |
| Prostate | | Inflammation, Chronic Diffuse |
| Stomach | | Acanthosis Hyperkeratosis Ulcer, Perforated |
| Testis | | Degeneration, Nos Interstitial-Cell Tumor |
| Unspecified | Axilla | Fibroma |
| | Multiple Organs Nos | Inflammation, Chronic |
| | Multiple Organs Nos | Leukemia, Monocytic |
| | Back | Neurofibrosarcoma |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_272

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Lung

Prostate

Skin

Spleen

Testis

Axilla

Pheochromocytoma

Inflammation, Chronic

Inflammation, Chronic

Inflammation, Chronic Focal

Neurofibrosarcoma

Hematopoiesis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_273

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|---------------------------------------|---|
| Adrenal gland | Cortex Nos Cortex Nos | Metamorphosis, Fatty Necrosis, Diffuse Pheochromocytoma |
| Bone marrow | | Hypoplasia, Nos |
| Epididymis | | Inflammation, Chronic Diffuse Necrosis, Fat |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | Bile Duct | Fibrosis Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos Inflammation, Chronic |
| Lung | | Hyperplasia, Reticulum Cell |
| Lymph node | Mesenteric Lymph Node | Galactocele |
| Mammary gland | | Inflammation, Chronic Diffuse |
| Pancreas | | Inflammation, Chronic Diffuse |
| Prostate | | Acanthosis |
| Stomach | | Hemorrhage Hyperkeratosis |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Adipose Tissue Multiple Organs Nos | Hemorrhage Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_274

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|------------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Fibrosis |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Congestion, Nos |
| | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Congestion, Nos |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Hyperplasia, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Spleen | Follicles | Atrophy, Nos |
| | | Hemosiderosis |
| Testis | | Interstitial-Cell Tumor |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
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 | Medulla Cortex Nos | Hyperplasia, Focal Metamorphosis, Fatty Pheochromocytoma |
| Blood vessel | Abdominal Aorta Aorta Nos | Mineralization Mineralization |
| Eye | Retina Cornea | Degeneration, Nos Inflammation, Chronic Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Small | Jejunum | Mucinous Cystadenocarcinoma |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos Focal Cellular Change Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| Spleen | | Hyperplasia, Nos |
| Stomach | Muscularis | Degeneration, Nos Mineralization |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | Scrotum Nos | Keratoacanthoma |
| Zymbal gland | | C-Cell Adenoma Cystic Ducts |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_276

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mandibular Lymph Node | Lymphangiectasis |
| Mammary gland | | Fibroadenoma |
| Pancreas | | Acinar-Cell Adenoma |
| | Islets | Islet-Cell Carcinoma |
| Pituitary gland | | Angiectasis |
| Spleen | | Hemorrhage |
| | | Hemosiderosis |
| | | Necrosis, Focal |
| Stomach | | Acanthosis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Carcinoma |
| Unspecified | Back | Neurofibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Pheochromocytoma

Bone marrow

Hyperplasia, Nos

Brain

Hemorrhage

Heart

Myocardium Nos

Inflammation, Chronic Focal

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Pancreas

Atrophy, Diffuse

Parathyroid gland

Hyperplasia, Nos

Seminal vesicle

Cyst, Nos

Stomach

Edema, Nos

Inflammation, Chronic Diffuse

Necrosis, Focal

Testis

Ulcer, Perforated

Thyroid

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

C-Cell Carcinoma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Inflammation, Chronic Diffuse

Kidney

Inflammation, Chronic

Tubule

Pigmentation, Nos

Liver

Focal Cellular Change

Lung

Metamorphosis, Fatty

Stomach

Inflammation, Chronic

Acanthosis

Hyperkeratosis

Inflammation, Chronic Focal

Testis

Necrosis, Focal

Thyroid

Interstitial-Cell Tumor

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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 | Medulla Cortex Nos | Hyperplasia, Focal Metamorphosis, Fatty Pheochromocytoma |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | Cortex | Cyst, Nos Inflammation, Chronic |
| Liver | | Leukocytosis, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Adenoma, Nos Hyperplasia, Diffuse |
| Pancreas | | Periarteritis |
| Parathyroid gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Hemosiderosis |
| Stomach | | Acanthosis Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Carcinoma |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_280

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Cortex Nos

Metamorphosis, Fatty

Esophagus

Hyperkeratosis

Heart

Myocardium Nos

Inflammation, Chronic Diffuse

Kidney

Tubule

Pigmentation, Nos

Liver

Bile Duct

Hyperplasia, Nos

Metamorphosis, Fatty

Pituitary gland

Adenoma, Nos

Prostate

Inflammation, Chronic Focal

Stomach

Acanthosis

Hyperkeratosis

Necrosis, Focal

Testis

Interstitial-Cell Tumor

Unspecified

Perianal Region

Fibrosarcoma

Multiple Organs Nos

Inflammation, Chronic

Zymbal gland

Cystic Ducts

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_281

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Esophagus

Heart

Kidney

Lung

Lymph node

Testis

Zymbal gland

Myocardium Nos

Ileocolic Lymph Node

Hyperkeratosis

Inflammation, Chronic Focal

Inflammation, Chronic

Carcinoma, Nos, Metastatic

Lymphangiectasis

Interstitial-Cell Tumor

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|---------------|-----------------------|--|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Esophagus | | Hyperkeratosis |
| Eye | Retina | Cataract Degeneration, Nos Hemorrhage Synechia, Posterior |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Pigmentation, Nos |
| Pancreas | Islets | Hyperplasia, Focal |
| Stomach | | Acanthosis Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Zymbal gland | | Follicular-Cell Carcinoma Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
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

| | | |
|-----------------|-----------------------|--------------------------------|
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Degeneration, Nos |
| | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | | Hepatocellular Carcinoma |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Necrosis, Focal |
| | | Neoplastic Nodule |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Seminal vesicle | | Cyst, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| | | Follicular-Cell Carcinoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_284

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Eye

Retina

Pheochromocytoma
Cataract

Heart
Kidney
Liver
Lung

Myocardium Nos

Degeneration, Nos
Hemorrhage
Synechia, Posterior
Inflammation, Chronic Focal
Inflammation, Chronic
Pigmentation, Nos
Inflammation, Chronic
Inflammation, Interstitial

Mammary gland
Pancreas
Spleen
Testis

Islets

Adenoma, Nos
Islet-Cell Adenoma
Fibrosis, Focal
Degeneration, Nos
Interstitial-Cell Tumor
C-Cell Adenoma
Cystic Follicles
Leukemia, Monocytic

Thyroid

Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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 | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Epididymis | | Necrosis, Fat |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Periarteritis |
| Parathyroid gland | | Hyperplasia, Nos |
| Skin | Back | Acanthosis |
| | Back | Cyst, Epidermal Inclusion |
| | Back | Hyperkeratosis |
| Spleen | | Hematopoiesis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| Testis | | Interstitial-Cell Tumor |
| | Tunica Vaginalis | Mesothelioma, Malignant |
| Unspecified | Groin | Fibroma |
| | Multiple Organs Nos | Inflammation, Chronic |
| | Multiple Organs Nos | Mesothelioma, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_286

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Eye | Retina | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Hyperplasia, Diffuse |
| Pancreas | | Ectopia |
| Pituitary gland | | Adenoma, Nos |
| | | Angiectasis |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Fibrosis, Focal |
| Stomach | | Acanthosis |
| | | Hemorrhage |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Focal |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_287

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Large

Mesentery Nos, Colon

Hemorrhage

Kidney

Mesentery Nos, Colon

Inflammation, Chronic Diffuse

Liver

Bile Duct

Inflammation, Chronic

Lung

Lymph node

Mesenteric Lymph Node

Fibrosis

Pituitary gland

Inflammation, Chronic

Prostate

Hyperplasia, Reticulum Cell

Cyst, Hemorrhagic

Spleen

Abscess, Nos

Testis

Inflammation, Chronic Diffuse

Urinary bladder

Hemosiderosis

Interstitial-Cell Tumor

Hemorrhage

Inflammation, Chronic Diffuse

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
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

| | | |
|-----------------|---------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Bone marrow | | Fibrosis, Myelo |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| | | Hemorrhage |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Metamorphosis, Fatty |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Preputial gland | | Cystic Ducts |
| | | Hyperplasia, Focal |
| Prostate | | Hyperplasia, Focal |
| | | Inflammation, Chronic Focal |
| Testis | | Degeneration, Nos |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_289

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Heart

Myocardium Nos

Inflammation, Chronic Focal

Kidney

Inflammation, Chronic

Liver

Hepatitis, Toxic

Bile Duct

Hyperplasia, Nos

Lymph node

Mesenteric Lymph Node

Hyperplasia, Reticulum Cell

Pancreatic Lymph Node

Pigmentation, Nos

Mammary gland

Cystic Ducts

Parathyroid gland

Hyperplasia, Nos

Prostate

Inflammation, Chronic Focal

Spleen

Necrosis, Nos

Stomach

Hyperkeratosis

Testis

Interstitial-Cell Tumor

Unspecified

Fibroma

Multiple Organs Nos

Leukemia, Monocytic

Zymbal gland

Cystic Ducts

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_290

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Eye | Retina | Degeneration, Nos |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Pancreatic Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Acinar-Cell Adenoma |
| | | Ectopia |
| | Islets | Hyperplasia, Focal |
| Pituitary gland | | Cyst, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_291

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Inflammation, Chronic

Liver

Necrosis, Focal

Lung

Inflammation, Chronic

Skin

Back

Hyperkeratosis

Spleen

Hematopoiesis

Testis

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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 | | Pheochromocytoma |
| Bone | Vertebra | Liposarcoma, Invasive |
| Bone marrow | | Liposarcoma, Invasive |
| Esophagus | | Hyperkeratosis |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Inflammation, Chronic Diffuse |
| Intestine Small | Mesentery Nos | Inflammation, Chronic Focal |
| | Mesentery Nos | Periarteritis |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| | | Liposarcoma, Metastatic |
| Lymph node | Mesenteric Lymph Node | Lymphangiectasis |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Liposarcoma, Metastatic |
| Stomach | | Acanthosis |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Back | Liposarcoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_293

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Pancreas | | Atrophy, Focal |
| Parathyroid gland | | C-Cell Carcinoma, Invasive |
| Pituitary gland | | Hemorrhage |
| Prostate | | Inflammation, Chronic Diffuse |
| Spleen | | Hematopoiesis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Tail | Fibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_294

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 |
| | Cornea | Inflammation, Chronic Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| Lung | | Edema, Nos |
| | | Hemorrhage |
| | Alveoli | Histiocytosis |
| | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Mammary gland | | Hyperplasia, Diffuse |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| | | Angiectasis |
| Prostate | Gland | Cyst, Nos |
| | | Inflammation, Chronic Diffuse |
| Spleen | | Hematopoiesis |
| | | Hemosiderosis |
| Stomach | Fundus | Hyperplasia, Diffuse |
| | | Mineralization |
| Testis | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_295

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Kidney

Lung

Mammary gland

Prostate

Skin

Testis

Thyroid

Unspecified

Zymbal gland

Retina

Tail

Head

Multiple Organs Nos

Pheochromocytoma

Cataract

Degeneration, Nos

Inflammation, Chronic

Inflammation, Chronic

Fibroadenoma

Inflammation, Chronic Focal

Cyst, Epidermal Inclusion

Interstitial-Cell Tumor

C-Cell Carcinoma

Fibroma

Leukemia, Monocytic

Cystic Ducts

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_296

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------|-----------|----------------------------------|
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Hyperplasia, Alveolar Epithelium |
| | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thymus | | Squamous Cell Carcinoma |
| Unspecified | | Fibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_297

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------|---------------------|-----------------------------|
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|-------------------|-----------------------|-------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Bone | Sternum | Osteopetrosis |
| Eye | | Phthisis Bulbi |
| Heart | Cardiac Valve | Inflammation, Chronic |
| | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Fibrosis |
| | | Focal Cellular Change |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mandibular Lymph Node | Inflammation, Acute |
| | Mesenteric Lymph Node | Pigmentation, Nos |
| Mammary gland | | Fibroadenoma |
| Pancreas | | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Abscess, Nos |
| | | Carcinoma, Nos |
| Salivary gland | | Inflammation, Acute Diffuse |
| Testis | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|-----------------|----------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Pancreas | Islets | Hyperplasia, Focal |
| Pituitary gland | | Cyst, Nos |
| | | Embryonal Rest |
| Skin | Eyelid Nos | Acanthosis |
| | Back | Trichoepithelioma |
| Testis | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_300

TRT#: 1
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|----------------|---|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Eye | Retina | Cataract |
| Heart | Myocardium Nos | Degeneration, Nos |
| Kidney | | Inflammation, Chronic Focal |
| Liver | | Inflammation, Chronic Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Hyperplasia, Alveolar Epithelium Inflammation, Chronic |
| Mammary gland | | Fibroadenoma |
| Pancreas | Acinus | Hyperplasia, Focal |
| | Islets | Islet-Cell Carcinoma |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Cyst, Follicular Nos Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_301

TRT#: 1
DOSE: 0

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---|---|
| Adrenal gland | Cortex Nos Medulla | Angiectasis Hyperplasia, Focal |
| Eye | Cortex Nos Retina | Metamorphosis, Fatty Degeneration, Nos |
| Intestine Large | Cecum, Colon Cecum, Colon | Inflammation, Acute Focal Necrosis, Focal |
| Liver | | Degeneration, Nos Focal Cellular Change Granuloma, Nos Metamorphosis, Fatty Neoplastic Nodule |
| Lung | | Hyperplasia, Alveolar Epithelium |
| Lymph node | Ileocolic Lymph Node Mandibular Lymph Node Ileocolic Lymph Node | Hyperplasia, Lymphoid Hyperplasia, Lymphoid Lymphangiectasis |
| Mammary gland | | Fibroadenoma |
| Pancreas | | Acinar-Cell Carcinoma |
| Pituitary gland | | Hyperplasia, Focal |
| Skin | Flank | Fibrosarcoma |
| Spleen | | Fibrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Adrenal gland
Heart
Intestine Small
Kidney
Liver

Lung
Lymph node

Preputial gland
Testis

Cortex Nos
Myocardium Nos
Duodenum

Bile Duct
Bile Duct

Mandibular Lymph Node
Mandibular Lymph Node

Metamorphosis, Fatty
Inflammation, Chronic Diffuse
Hemorrhage
Inflammation, Chronic
Hyperplasia, Nos
Inflammation, Chronic
Hyperplasia, Lymphoid
Lymphangiectasis
Carcinoma, Nos
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_303

TRT#: 1
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| | | Nephrosis, Hydro |
| Liver | Bile Duct | Fibrosis |
| Lung | | Congestion, Nos |
| | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Congestion, Nos |
| | Pancreatic Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Acinar-Cell Adenoma |
| Parathyroid gland | | Hyperplasia, Nos |
| Penis | Prepuce Nos | Hyperkeratosis |
| Salivary gland | | Granuloma, Nos |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Necrosis, Focal |
| Testis | | Ulcer, Perforated |
| Unspecified | Abdominal Cavity | Interstitial-Cell Tumor |
| | Abdominal Cavity | Necrosis, Fat |
| | | Steatitis |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
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 | Medulla | Hyperplasia, Focal |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| | Cornea | Inflammation, Chronic Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos |
| | | Focal Cellular Change |
| | | Granuloma, Nos |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Parathyroid gland | | Hyperplasia, Nos |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Zymbal gland | | Inflammation, Chronic Focal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_305

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|-----------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Acinar-Cell Adenoma |
| | Islets | Islet-Cell Adenoma |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| Unspecified | Back | Fibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis, Focal

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Lymph node

Mandibular Lymph Node

Hyperplasia, Lymphoid

Pancreatic Lymph Node

Hyperplasia, Reticulum Cell

Mesenteric Lymph Node

Lymphangiectasis

Testis

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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 | Angiectasis Hyperplasia, Focal Hyperplasia, Focal |
| Bone | Maxilla Maxilla | Fibrous Osteodystrophy Osteopetrosis |
| Eye | Skull Cornea Cornea | Osteopetrosis Inflammation, Chronic Focal Necrosis, Focal |
| Intestine Large | Colon | Inflammation, Acute Focal |
| Kidney | Cortex | Cyst, Nos |
| Liver | | Metamorphosis, Fatty |
| Mammary gland | | Hyperplasia, Diffuse |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| Spleen | | Hematopoiesis Hemosiderosis |
| Stomach | Fundus | Hyperplasia, Diffuse |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos Multiple Organs Nos Multiple Organs Nos | Degeneration, Nos Inflammation, Chronic Mineralization |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_308

TRT#: 1
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Angiectasis |
| | Bile Duct | Hyperplasia, Nos |
| | | Necrosis, Focal |
| Lung | | Sarcoma, Nos, Metastatic |
| Pancreas | | Atrophy, Focal |
| Preputial gland | | Carcinoma, Nos |
| Spleen | | Hematopoiesis |
| Stomach | | Acanthosis |
| | | Inflammation, Chronic Focal |
| | | Necrosis, Focal |
| Testis | | Ulcer, Perforated |
| Unspecified | Back | Interstitial-Cell Tumor |
| Zymbal gland | | Sarcoma, Nos |
| | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_426

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Intestine Large

Colon

Inflammation, Chronic Focal

Intestine Small

Duodenum

Mucinous Cystadenocarcinoma

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Bile Duct

Inflammation, Chronic

Testis

Neoplastic Nodule

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

Multiple Organs Nos

Mucinous Cystadenocarcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_427

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|-------------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Transverse Colon, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Metamorphosis, Fatty |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Pituitary gland | | Cyst, Nos |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Focal |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Carcinoma, Nos, Metastatic |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_428

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------|---|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Mucinous Cystadenocarcinoma |
| Lung | | Inflammation, Chronic |
| Testis | | Degeneration, Nos |
| Unspecified | Abdominal Cavity | Mucinous Cystadenocarcinoma, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_429

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|---|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct Bile Duct | Hyperplasia, Nos Inflammation, Chronic |
| Lung | | Metamorphosis, Fatty Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Lymphoid |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_430

TRT#: 2

DOSE: 0

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Thyroid

Hyperplasia, C Cell

Zymbal gland

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_431

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|--------------|---------------------|--------------------------------|
| Ear | Canal | Squamous Cell Papilloma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_432

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|---|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Esophagus | | Hyperplasia, Nos |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Inflammation, Chronic Diffuse |
| Intestine Small | Duodenum | Mucinous Cystadenocarcinoma |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Cystic Ducts |
| Testis | | Hyperplasia, Interstitial Cell |
| Unspecified | Multiple Organs Nos | Mucinous Cystadenocarcinoma, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_433

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------|-----------------------|---|
| Kidney | Tubule | Necrosis, Focal |
| Liver | Bile Duct | Hepatitis, Toxic Hyperplasia, Nos Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Ileocolic Lymph Node | Lymphangiectasis |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_434

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Liver

Cortex Nos
Cecum, Colon

Bile Duct

Lung

Parathyroid gland
Spleen
Testis

Metamorphosis, Fatty
Signet Ring Carcinoma
Focal Cellular Change
Hyperplasia, Nos
Hyperplasia, Alveolar Epithelium
Inflammation, Chronic
Hyperplasia, Nos
Hematopoiesis
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Hyperplasia, C Cell
Signet Ring Carcinoma, Metastatic
Squamous Cell Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_435

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Small

Duodenum

Mucinous Cystadenocarcinoma

Lung

Inflammation, Chronic

Thymus

Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_436

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Kidney
Liver
Lung
Testis

Medulla
Ascending Colon, Colon

Hyperplasia, Focal
Adenocarcinoma In Adenomatous Polyp
Inflammation, Chronic
Metamorphosis, Fatty
Inflammation, Chronic
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_437

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Cecum, Colon

Inflammation, Acute Focal

Cecum, Colon

Necrosis, Focal

Intestine Small

Jejunum

Mucinous Cystadenocarcinoma

Liver

Abscess, Nos

Lung

Necrosis, Focal

Pancreas

Inflammation, Chronic

Peritoneum

Atrophy, Diffuse

Stomach

Inflammation, Acute

Hyperkeratosis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_438

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-------------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Bone marrow | | Hyperplasia, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Adenocarcinoma In Adenomatous Polyp |
| | Cecum, Colon | Signet Ring Carcinoma |
| Kidney | | Inflammation, Chronic |
| | | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Pituitary gland | | Angiectasis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Signet Ring Carcinoma, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_439

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon
Ascending Colon, Colon

Adenomatous Polyp, Nos
Parasitism

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Lung

Inflammation, Chronic

Prostate

Inflammation, Acute Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_440

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenocarcinoma In Adenomatous Polyp

Ascending Colon, Colon

Adenomatous Polyp, Nos

Descending, Colon

Adenomatous Polyp, Nos

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_441

TRT#: 2
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--------------------------------------|
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos |
| | | Focal Cellular Change |
| | | Granuloma, Nos |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Pigmentation, Nos |
| Lung | | Granuloma, Nos |
| | | Inflammation, Chronic |
| Lymph node | Renal Lymph Node | Pigmentation, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| Preputial gland | | Carcinoma, Nos |
| Skin | Ear | Fibrosarcoma |
| | Lip Nos | Squamous Cell Papilloma |
| Testis | | Degeneration, Nos |
| | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Lymphoma, Histiocytic-Malignant Type |
| Zymbal gland | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_442

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Inflammation, Chronic Focal

Intestine Large

Transverse Colon, Colon

Adenocarcinoma In Adenomatous Polyp

Lung

Adenocarcinoma In Adenomatous Polyp, Metastatic

Spleen

Follicles

Inflammation, Chronic

Atrophy, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_443

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|-------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| | Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Fibrosis |
| | | Hepatocellular Carcinoma |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Spleen | | Fibrosis, Focal |
| Thyroid | | Cyst, Follicular Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_444

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney
Liver
Lymph node
Testis

Cortex Nos
Myocardium Nos
Ascending Colon, Colon

Celiac Lymph Node

Metamorphosis, Fatty
Fibrosis, Multifocal
Adenocarcinoma, Nos
Inflammation, Chronic Focal
Hepatocellular Carcinoma
Mucinous Cystadenocarcinoma, Metastatic
Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_445

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Intestine Large
Lung
Unspecified

Cecum, Colon

Multiple Organs Nos

Mucinous Cystadenocarcinoma
Inflammation, Chronic
Mucinous Cystadenocarcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_446

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|--|
| Kidney | | Inflammation, Chronic Neurofibrosarcoma |
| Liver | | Metamorphosis, Fatty Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| Pancreas | | Neurofibrosarcoma, Metastatic |
| Skeletal muscle | Leg | Rhabdomyosarcoma |
| Spleen | | Hematopoiesis |
| Testis | | Hyperplasia, Interstitial Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|-----------------|-------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | | Metamorphosis, Fatty |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_448

TRT#: 2
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---|-----------------------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Intestine Large Kidney | Descending, Colon Tubule | Adenomatous Polyp, Nos Inflammation, Chronic Pigmentation, Nos |
| Liver | Bile Duct | Focal Cellular Change Hyperplasia, Nos Necrosis, Focal Neoplastic Nodule |
| Lung Lymph node Prostate | Mesenteric Lymph Node | Inflammation, Chronic Hyperplasia, Reticulum Cell Hyperplasia, Focal |
| Skin Testis Thyroid Zymbal gland | Back | Inflammation, Chronic Focal Cyst, Epidermal Inclusion Interstitial-Cell Tumor Hyperplasia, C Cell Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_449

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart
Intestine Large

Myocardium Nos
Ascending Colon, Colon
Descending, Colon
Descending, Colon

Inflammation, Chronic Focal
Adenocarcinoma, Nos
Adenomatous Polyp, Nos
Parasitism
Inflammation, Chronic
Focal Cellular Change
Inflammation, Chronic
Acanthosis
Hyperkeratosis
Interstitial-Cell Tumor

Kidney
Liver
Lung
Stomach

Testis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_450

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|---|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Esophagus | | Hyperkeratosis |
| Intestine Small | Duodenum | Mucinous Cystadenocarcinoma |
| Kidney | | Inflammation, Chronic |
| Liver | | Angiectasis |
| | | Degeneration, Nos |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| Unspecified | Multiple Organs Nos | Mucinous Cystadenocarcinoma, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|-----------------|-------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Metamorphosis, Fatty |
| | | Necrosis, Nos |
| Lung | | Inflammation, Chronic |
| Testis | | Degeneration, Nos |
| | | Hyperplasia, Interstitial Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_452

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Intestine Large

Intestine Small

Kidney

Lung

Lymph node

Stomach

Testis

Unspecified

Colon

Jejunum

Mesenteric Lymph Node

Mesenteric Lymph Node

Abdominal Cavity

Pheochromocytoma

Hyperplasia, Focal

Mucinous Cystadenocarcinoma

Inflammation, Chronic

Inflammation, Chronic

Hyperplasia, Lymphoid

Lymphangiectasis

Acanthosis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Steatitis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_453

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Esophagus
Intestine Large
Kidney
Liver

Cecum, Colon

Hyperkeratosis
Adenocarcinoma, Nos
Inflammation, Chronic
Focal Cellular Change
Hemorrhage
Necrosis, Focal
Degeneration, Nos
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Adenocarcinoma, Nos, Metastatic

Testis

Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_454

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Intestine Large
Testis

Cecum, Colon

Adenocarcinoma, Nos
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos
Leg

Adenocarcinoma, Nos, Metastatic
Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
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 | Inflammation, Chronic Diffuse |
| Intestine Large | Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Lymph node | Ileocolic Lymph Node | Lymphangiectasis |
| Spleen | | Necrosis, Nos |
| Stomach | | Hyperkeratosis |
| Testis | | Degeneration, Nos |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Leg | Hyperkeratosis |
| | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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 | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Mucinous Cystadenocarcinoma |
| Liver | Bile Duct | Fibrosis |
| | Bile Duct | Hyperplasia, Nos |
| | | Metamorphosis, Fatty |
| Lung | | Necrosis, Focal |
| | | Inflammation, Chronic |
| | | Thrombosis, Nos |
| Unspecified | Multiple Organs Nos | Mucinous Cystadenocarcinoma, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_457

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Intestine Large
Lung
Unspecified

Cecum, Colon

Multiple Organs Nos

Mucinous Cystadenocarcinoma
Inflammation, Chronic
Mucinous Cystadenocarcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_458

TRT#: 2
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|-------------------------------|
| Adrenal gland | | Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Angiectasis |
| | | Degeneration, Nos |
| | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Leukemia, Monocytic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Lymphangiectasis |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Acanthosis |
| | | Edema, Nos |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| Testis | | Interstitial-Cell Tumor |
| Zymbal gland | | Carcinoma, Nos |
| | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_459

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|---|
| Esophagus | | Hyperkeratosis |
| Intestine Large | Ascending Colon, Colon | Mucinous Cystadenocarcinoma |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| | | Mucinous Cystadenocarcinoma, Metastatic |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| | Mesenteric Lymph Node | Mucinous Cystadenocarcinoma, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_460

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Intestine Small

Cortex Nos
Ileum, Ileum
Duodenum
Ileum, Ileum
Duodenum
Ileum, Ileum

Liver
Lung
Lymph node
Spleen

Ileocolic Lymph Node

Metamorphosis, Fatty
Adenocarcinoma, Nos
Inflammation, Acute
Inflammation, Acute/Chronic
Necrosis, Nos
Necrosis, Nos
Metamorphosis, Fatty
Inflammation, Chronic
Hyperplasia, Lymphoid
Hematopoiesis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| | Descending, Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Pancreatic Lymph Node | Hyperplasia, Reticulum Cell |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_462

TRT#: 2
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|-------------------------------------|
| Adrenal gland | Cortex Nos | Congestion, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Degeneration, Nos |
| | Bile Duct | Focal Cellular Change |
| | | Hyperplasia, Nos |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Fibroadenoma |
| Pituitary gland | | Adenoma, Nos |
| Preputial gland | | Carcinoma, Nos |
| Testis | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_463

TRT#: 2
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|------------------------|-----------------------------|
| Adrenal gland | | Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Ascending Colon, Colon | Adenomatous Polyp, Nos |
| Intestine Small | Duodenum | Mucinous Cystadenocarcinoma |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | | Metamorphosis, Fatty |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mandibular Lymph Node | Lymphangiectasis |
| | Mesenteric Lymph Node | Lymphangiectasis |
| Mammary gland | | Hyperplasia, Nos |
| Pancreas | | Ectopia |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Hyperplasia, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Intestine Large

Ascending Colon, Colon

Adenocarcinoma In Adenomatous Polyp

Lung

Inflammation, Chronic

Lymph node

Mandibular Lymph Node

Hyperplasia, Lymphoid

Mesenteric Lymph Node

Hyperplasia, Reticulum Cell

Salivary gland

Abscess, Nos

Spleen

Hematopoiesis

Testis

Degeneration, Nos

Zymbal gland

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_465

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney
Liver

Myocardium Nos
Descending, Colon

Bile Duct
Bile Duct

Lung
Parathyroid gland
Prostate
Stomach
Testis

Pheochromocytoma
Inflammation, Chronic Diffuse
Adenocarcinoma In Adenomatous Polyp
Inflammation, Chronic
Degeneration, Nos
Hyperplasia, Nos
Inflammation, Chronic
Metamorphosis, Fatty
Inflammation, Chronic
Hyperplasia, Nos
Inflammation, Chronic Focal
Necrosis, Focal
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_466

TRT#: 2
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Intestine Small

Duodenum
Jejunum

Kidney
Liver

Lung
Stomach

Testis
Unspecified

Multiple Organs Nos

Pheochromocytoma
Adenocarcinoma, Nos
Leiomyosarcoma
Inflammation, Chronic
Focal Cellular Change
Hepatocellular Carcinoma
Neoplastic Nodule
Inflammation, Chronic
Inflammation, Chronic
Necrosis, Focal
Interstitial-Cell Tumor
Adenocarcinoma, Nos, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
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

| | | |
|-----------------|---|---|
| Adrenal gland | Cortex Nos Cortex Nos | Angiectasis Metamorphosis, Fatty Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Parasitism |
| Kidney | Tubule | Inflammation, Chronic Pigmentation, Nos |
| Liver | | Hepatitis, Toxic Hepatocellular Carcinoma |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node Mesenteric Lymph Node Mandibular Lymph Node Mediastinal Lymph Node | Hyperplasia, Lymphoid Hyperplasia, Reticulum Cell Lymphangiectasis Pigmentation, Nos |
| Pancreas | | Hyperplasia, Reticulum Cell |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Flank | Hyperkeratosis |
| Stomach | | Acanthosis Hyperkeratosis |
| 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: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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
Lung
Pituitary gland

Descending, Colon

Adenomatous Polyp, Nos
Inflammation, Chronic
Inflammation, Chronic
Adenoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|-----------------|-----------------------|-------------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| Kidney | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | | Metamorphosis, Fatty |
| | | Neoplastic Nodule |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mandibular Lymph Node | Lymphangiectasis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Head | Abscess, Nos |
| | Multiple Organs Nos | Inflammation, Chronic |
| Zymbal gland | | Hyperkeratosis |
| | | Inflammation, Acute |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Intestine Large

Ascending Colon, Colon

Adenocarcinoma, Nos

Kidney

Descending, Colon

Adenomatous Polyp, Nos

Liver

Inflammation, Chronic

Focal Cellular Change

Lung

Necrosis, Focal

Testis

Inflammation, Chronic

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_471

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large

Medulla
Myocardium Nos
Transverse Colon, Colon
Transverse Colon, Colon
Cecum, Colon

Hyperplasia, Focal
Inflammation, Chronic Focal
Adenocarcinoma In Adenomatous Polyp
Adenomatous Polyp, Nos
Hyperplasia, Focal
Inflammation, Chronic
Focal Cellular Change
Hyperplasia, Nos
Inflammation, Chronic
Metamorphosis, Fatty
Inflammation, Chronic
Acanthosis
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

Kidney
Liver

Bile Duct
Bile Duct

Lung
Stomach
Testis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_472

TRT#: 2
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|--------------------------------|
| Intestine Large | Ascending Colon, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Focal Cellular Change |
| | | Hyperplasia, Nos |
| | | Neoplastic Nodule |
| Lung | | Alveolar/Bronchiolar Carcinoma |
| | | Inflammation, Chronic |
| Lymph node | Pancreatic Lymph Node | Hyperplasia, Reticulum Cell |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| | Pancreatic Lymph Node | Pigmentation, Nos |
| Pituitary gland | | Cyst, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Chest | Cyst, Epidermal Inclusion |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Back | Fibroma |
| | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Carcinoma, Nos |
| | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_473

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|------------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Metamorphosis, Fatty |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Pigmentation, Nos |
| Spleen | | Hematopoiesis |
| Testis | | Interstitial-Cell Tumor |
| | Tunica Vaginalis | Mesothelioma, Malignant |
| Unspecified | Multiple Organs Nos | Mesothelioma, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_474

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|---------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Cecum, Colon | Adenocarcinoma, Nos |
| Liver | Bile Duct | Fibrosis |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| | | Thrombosis, Nos |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| Testis | | Inflammation, Chronic Focal |
| Unspecified | Multiple Organs Nos | Interstitial-Cell Tumor |
| | | Adenocarcinoma, Nos, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_475

TRT#: 2
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mandibular Lymph Node | Lymphangiectasis |
| Pancreas | | Atrophy, Focal |
| Preputial gland | | Cystic Ducts |
| | | Hyperplasia, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Cyst, Follicular Nos |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_476

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|--|--|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Transverse Colon, Colon Submucosa, Colon | Cyst, Nos Granuloma, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct Bile Duct | Hyperplasia, Nos Inflammation, Chronic Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node Mesenteric Lymph Node | Hyperplasia, Lymphoid Hyperplasia, Reticulum Cell |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_477

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Kidney
Lung
Lymph node
Thyroid

Medulla
Transverse Colon, Colon

Pancreatic Lymph Node

Hyperplasia, Focal
Mucinous Cystadenocarcinoma
Inflammation, Chronic
Inflammation, Chronic
Mucinous Cystadenocarcinoma, Metastatic
Cyst, Follicular Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_478

TRT#: 2
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|-----------------------------|
| Adrenal gland | | Pheochromocytoma |
| Esophagus | | Hyperkeratosis |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| Liver | | Angiectasis |
| | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Metamorphosis, Fatty |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Parathyroid gland | | Hyperplasia, Nos |
| Spleen | | Fibrosis, Multifocal |
| Stomach | | Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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
Heart
Kidney
Liver
Lung
Spleen

Cortex Nos
Myocardium Nos

Metamorphosis, Fatty
Inflammation, Chronic Diffuse
Inflammation, Chronic
Necrosis, Focal
Inflammation, Chronic
Hematopoiesis
Hemorrhage
Necrosis, Focal
Hyperplasia, Interstitial Cell
Sarcoma, Nos

Testis
Unspecified

Orbital Region

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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 | Myocardium Nos | Degeneration, Nos |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | | Metamorphosis, Fatty |
| Lung | | Necrosis, Nos |
| Testis | | Inflammation, Chronic |
| | | Hyperplasia, Interstitial Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_481

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mediastinal Lymph Node | Hyperplasia, Lymphoid |
| | Mandibular Lymph Node | Lymphangiectasis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
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

Intestine Large

Colon
Transverse Colon, Colon

Adenomatous Polyp, Nos
Adenomatous Polyp, Nos
Inflammation, Chronic

Kidney

Liver

Bile Duct

Fibrosis
Focal Cellular Change

Bile Duct

Hyperplasia, Nos
Metamorphosis, Fatty
Pneumonia, Chronic Murine

Lung

Lymph node

Stomach

Testis

Mandibular Lymph Node

Hyperplasia, Lymphoid
Acanthosis
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
C-Cell Carcinoma

Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_483

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Ectopia |
| Skin | Back | Cyst, Epidermal Inclusion |
| Stomach | Submucosa | Edema, Nos |
| | | Inflammation, Chronic Focal |
| | | Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Intestine Large

Descending, Colon
Large Intestine, Colon

Adenomatous Polyp, Nos

Kidney

Inflammation, Acute

Liver

Inflammation, Chronic

Hepatitis, Toxic

Necrosis, Focal

Lung

Hemorrhage

Lymph node

Mediastinal Lymph Node

Hemorrhage

Testis

Interstitial-Cell Tumor

Thymus

Hemorrhage

Unspecified

Multiple Organs Nos

Lymphoma, Histiocytic-Malignant Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
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 | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Eye | Lacrimal Gland | Carcinoma, Nos |
| | Retina | Degeneration, Nos |
| | Cornea | Inflammation, Acute Focal |
| | Cornea | Necrosis, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Ascending Colon, Colon | Adenomatous Polyp, Nos |
| | Ascending Colon, Colon | Parasitism |
| Liver | | Degeneration, Nos |
| | | Hepatitis, Toxic |
| | | Hepatocellular Carcinoma |
| | | Necrosis, Focal |
| | | Neoplastic Nodule |
| Spleen | | Necrosis, Nos |
| Stomach | | Inflammation, Chronic Diffuse |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| | | Follicular-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic |
| | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |
| | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Cortex Nos
Cortex Nos

Angiectasis
Metamorphosis, Fatty
Pheochromocytoma

Ear

Canal

Squamous Cell Carcinoma

Heart

Myocardium Nos

Inflammation, Chronic Focal

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Kidney

Mucosa, Colon

Hyperplasia, Focal

Liver

Inflammation, Chronic

Lung

Focal Cellular Change

Pancreas

Inflammation, Chronic

Prostate

Atrophy, Focal

Testis

Inflammation, Chronic Focal

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_487

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Kidney
Liver

Cortex Nos
Colon

Bile Duct
Bile Duct

Lung

Lymph node
Testis

Mandibular Lymph Node

Metamorphosis, Fatty
Parasitism
Inflammation, Chronic
Granuloma, Nos
Hyperplasia, Nos
Inflammation, Chronic
Metamorphosis, Fatty
Pigmentation, Nos
Hyperplasia, Alveolar Epithelium
Inflammation, Chronic
Hyperplasia, Lymphoid
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_488

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Intestine Large
Liver

Descending, Colon
Bile Duct

Adenomatous Polyp, Nos
Hyperplasia, Nos
Metamorphosis, Fatty
Inflammation, Chronic
Degeneration, Nos
Hyperplasia, Interstitial Cell

Lung
Testis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_489

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|-------------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Ascending Colon, Colon | Adenomatous Polyp, Nos |
| | Transverse Colon, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Pancreatic Lymph Node | Hyperplasia, Reticulum Cell |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_490

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-------------------------------------|
| Epididymis | | Mesothelioma, Invasive |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Metamorphosis, Fatty |
| | | Necrosis, Focal |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hemorrhage |
| | Ileocolic Lymph Node | Lymphangiectasis |
| Skin | Back | Cyst, Epidermal Inclusion |
| Spleen | | Hemorrhage |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| | Scrotum Nos | Mesothelioma, Invasive |
| | Tunica Vaginalis | Mesothelioma, Malignant |
| Thyroid | | C-Cell Adenoma |
| | | Follicular-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
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 | Cortex Nos | Necrosis, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Fibrosis, Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Oral mucosa | Mouth Nos | Keratoacanthoma |
| Pancreas | | Atrophy, Diffuse |
| Skin | Flank | Cyst, Epidermal Inclusion |
| Spleen | | Hemorrhage |
| | | Necrosis, Focal |
| Stomach | | Inflammation, Chronic Focal |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| | | C-Cell Carcinoma |
| Unspecified | Back | Fibroma |
| | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |
| | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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
Heart
Kidney
Liver

Cortex Nos
Myocardium Nos

Metamorphosis, Fatty
Inflammation, Chronic Diffuse
Inflammation, Chronic
Focal Cellular Change

Bile Duct

Granuloma, Nos
Hyperplasia, Nos
Metamorphosis, Fatty
Neoplastic Nodule

Lung
Lymph node

Ileocolic Lymph Node
Mesenteric Lymph Node

Inflammation, Chronic
Hyperplasia, Reticulum Cell
Hyperplasia, Reticulum Cell

Pancreas
Testis

Atrophy, Focal
Degeneration, Nos
Hyperplasia, Interstitial Cell

Zymbal gland

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_493

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|--------------|-----------------------|--------------------------------|
| Esophagus | | Hyperkeratosis |
| Kidney | | Inflammation, Chronic |
| Liver | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mandibular Lymph Node | Lymphangiectasis |
| Pancreas | | Atrophy, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
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 | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Descending, Colon | Parasitism |
| Kidney | | Hyperplasia, Tubular Cell |
| | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mandibular Lymph Node | Lymphangiectasis |
| Pancreas | | Atrophy, Focal |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_495

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|-------------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Colon | Hyperplasia, Focal |
| | Colon | Parasitism |
| Intestine Small | Peyers Patch | Hyperplasia, Lymphoid |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Testis | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Intestine Small

Jejunum

Necrosis, Nos

Testis

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_497

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenocarcinoma In Adenomatous Polyp

Intestine Small

Duodenum

Mucinous Cystadenocarcinoma

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Lung

Inflammation, Chronic

Pituitary gland

Adenoma, Nos

Spleen

Hematopoiesis

Testis

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_498

TRT#: 2
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-------------------------------|
| Adrenal gland | | Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | | Granuloma, Nos |
| | | Metamorphosis, Fatty |
| | | Necrosis, Focal |
| Lung | | Granuloma, Nos |
| | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Galactocele |
| Seminal vesicle | | Hyperplasia, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Adenoma |
| | | Follicular-Cell Carcinoma |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_499

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------|-------------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| Kidney | | Inflammation, Chronic |
| Liver | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Testis | | Degeneration, Nos |
| | | Hyperplasia, Interstitial Cell |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_500

TRT#: 2
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Angiectasis |
| | | Focal Cellular Change |
| | Bile Duct | Inflammation, Chronic |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Atrophy, Focal |
| Seminal vesicle | | Cyst, Nos |
| Testis | | Hemorrhage |
| | | Hyperplasia, Interstitial Cell |
| Thyroid | | Interstitial-Cell Tumor |
| Zymbal gland | | Hyperplasia, C Cell |
| | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_501

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|-------------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_502

TRT#: 2
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|---------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | | Leukemia, Monocytic |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Testis | | Degeneration, Nos |
| | | Interstitial-Cell Tumor |
| | Tunica Vaginalis | Mesothelioma, Malignant |
| Unspecified | Multiple Organs Nos | Mesothelioma, Invasive |
| | Multiple Organs Nos | Mesothelioma, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_503

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|---|
| Bone marrow | | Hyperplasia, Nos |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Cecum, Colon | Mucinous Cystadenocarcinoma |
| Lymph node | Cervical Lymph Node Nos | Congestion, Nos |
| | Mediastinal Lymph Node | Congestion, Nos |
| Thymus | | Congestion, Nos |
| Unspecified | Multiple Organs Nos | Mucinous Cystadenocarcinoma, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|-------------------|----------------|-------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| | Myocardium Nos | Mineralization |
| Kidney | | Inflammation, Chronic |
| Liver | | Angiectasis |
| | | Granuloma, Nos |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Parathyroid gland | | Hyperplasia, Nos |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Zymbal gland | | Cystic Ducts |
| | | Hyperkeratosis |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Adenocarcinoma In Adenomatous Polyp

Ascending Colon, Colon

Adenocarcinoma, Nos

Descending, Colon

Adenomatous Polyp, Nos

Intestine Small

Jejunum

Adenomatous Polyp, Nos

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Metamorphosis, Fatty

Necrosis, Nos

Lung

Inflammation, Chronic

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|----------------|----------------|-------------------------------|
| Brain | Cerebrum | Gliosis |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Necrosis, Focal |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Salivary gland | | Sarcoma, Nos |
| Spleen | | Hematopoiesis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| Testis | | Interstitial-Cell Tumor |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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 | Cardiac Valve | Inflammation, Chronic |
| | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Cecum, Colon | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Adrenal gland
Heart
Intestine Large
Liver

Lung
Lymph node
Mammary gland
Testis

Thyroid

Cortex Nos
Myocardium Nos
Descending, Colon
Bile Duct
Bile Duct

Mesenteric Lymph Node

Metamorphosis, Fatty
Inflammation, Chronic Focal
Adenomatous Polyp, Nos
Hyperplasia, Nos
Inflammation, Chronic
Inflammation, Chronic
Hyperplasia, Reticulum Cell
Cystic Ducts
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Cyst, Follicular Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Intestine Large
Skin
Unspecified

Ascending Colon, Colon
Circumanal Gland
Multiple Organs Nos

Signet Ring Carcinoma
Hyperplasia, Nos
Signet Ring Carcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|-----------------|----------------|---|
| Epididymis | | Necrosis, Fat |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Signet Ring Carcinoma |
| Intestine Small | Mesentery Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Acanthosis |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_511

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|-------------------------------------|
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Descending, Colon | Adenomatous Polyp, Nos |
| Intestine Small | Duodenum | Signet Ring Carcinoma |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Signet Ring Carcinoma, Metastatic |
| Zymbal gland | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_512

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|-------------------------------------|
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Cecum, Colon | Adenocarcinoma, Nos |
| Intestine Small | Ileum, Ileum | Carcinoma, Nos |
| Liver | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| | | Thrombosis, Nos |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| Pancreas | | Atrophy, Focal |
| Unspecified | Multiple Organs Nos | Adenocarcinoma, Nos, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Intestine Large
Kidney
Liver
Lung
Testis

Descending, Colon

Adenomatous Polyp, Nos
Inflammation, Chronic
Metamorphosis, Fatty
Inflammation, Chronic
Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Intestine Small
Kidney
Liver
Testis

Duodenum

Signet Ring Carcinoma
Inflammation, Chronic
Neoplastic Nodule
Degeneration, Nos
Hyperplasia, Interstitial Cell
Signet Ring Carcinoma, Metastatic

Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|-----------------|----------------|---------------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Small | Duodenum | Adenocarcinoma, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Pancreas | | Adenocarcinoma, Nos, Metastatic |
| Seminal vesicle | | Cyst, Nos |
| Spleen | | Hematopoiesis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Adenoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_516

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|--------------|-----------|-------------------------|
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | | Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Testis | | Interstitial-Cell Tumor |
| Zymbal gland | | Hyperplasia, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_517

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Angiectasis

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Inflammation, Chronic Diffuse

Intestine Large

Descending, Colon

Adenocarcinoma In Adenomatous Polyp

Transverse Colon, Colon

Adenocarcinoma In Adenomatous Polyp

Colon

Parasitism

Kidney

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Nos

Lung

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

Thyroid

Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_518

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|--------------|-----------------------|-----------------------------|
| Kidney | | Transitional-Cell Carcinoma |
| Liver | | Angiectasis |
| | | Focal Cellular Change |
| | | Hepatocellular Carcinoma |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Ileocolic Lymph Node | Lymphangiectasis |
| | Mandibular Lymph Node | Lymphangiectasis |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Hematopoiesis |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_519

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Small | Mesentery Nos | Sarcoma, Nos |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Spleen | | Hematopoiesis |
| Unspecified | Abdominal Cavity | Sarcoma, Nos |
| | Multiple Organs Nos | Sarcoma, Nos, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_520

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Brain | Cerebrum | Astrocytoma |
| | Meninges | Meningioma |
| Heart | Myocardium Nos | Fibrosis, Multifocal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Zymbal gland | | Keratoacanthoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
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

| | | |
|-----------------|-----------------------|--------------------------------|
| Ear | Canal | Hemorrhage |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hepatocellular Carcinoma |
| | Bile Duct | Hyperplasia, Nos |
| | | Inflammation, Chronic |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Atrophy, Nos |
| | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Pancreatic Lymph Node | Hyperplasia, Reticulum Cell |
| | Mandibular Lymph Node | Lymphangiectasis |
| Pituitary gland | | Angiectasis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| Testis | | Degeneration, Nos |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_522

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Brain

Heart

Intestine Large

Intestine Small

Kidney

Liver

Lung

Lymph node

Testis

Zymbal gland

Cerebellum Nos

Myocardium Nos

Descending, Colon

Duodenum

Duodenum

Bile Duct

Mandibular Lymph Node

Pancreatic Lymph Node

Mandibular Lymph Node

Pheochromocytoma

Abscess, Nos

Inflammation, Chronic Focal

Adenocarcinoma In Adenomatous Polyp

Hyperplasia, Cystic

Metaplasia, Osseous

Inflammation, Chronic

Hyperplasia, Nos

Inflammation, Chronic

Hyperplasia, Lymphoid

Hyperplasia, Reticulum Cell

Lymphangiectasis

Interstitial-Cell Tumor

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Intestine Large | Cecum, Colon | Necrosis, Focal |
| Intestine Small | Ileum, Ileum | Necrosis, Focal |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Atrophy, Focal |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic Focal |
| | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_524

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-------------------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Heart | Myocardium Nos | Degeneration, Nos |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Cecum, Colon | Signet Ring Carcinoma |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Metamorphosis, Fatty |
| Lung | | Granuloma, Nos |
| | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Signet Ring Carcinoma, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_525

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large

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

Hyperplasia, Focal
Adenocarcinoma In Adenomatous Polyp
Adenocarcinoma In Adenomatous Polyp
Adenomatous Polyp, Nos
Carcinoma In Situ, Nos
Necrosis, Focal

Kidney

Tubule

Inflammation, Chronic
Pigmentation, Nos
Tubular-Cell Adenocarcinoma

Liver

Focal Cellular Change
Necrosis, Focal
Neoplastic Nodule

Lung
Lymph node
Pancreas
Testis

Mandibular Lymph Node

Inflammation, Chronic
Hyperplasia, Lymphoid
Atrophy, Diffuse
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Neurofibroma

Unspecified

Flank

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_526

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|--------------------------------|
| Adrenal gland | | Pheochromocytoma |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| | Transverse Colon, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_527

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|--|---|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon Ascending Colon, Colon | Adenomatous Polyp, Nos Carcinoma In Situ, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| Lung | | Hemorrhage |
| Lymph node | Mandibular Lymph Node Mesenteric Lymph Node | Inflammation, Chronic Hyperplasia, Lymphoid |
| Testis | | Hyperplasia, Reticulum Cell Hyperplasia, Interstitial Cell |
| Unspecified | Multiple Organs Nos | Interstitial-Cell Tumor Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_528

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|-----------------------------------|
| Epididymis | | Granuloma, Spermatic |
| Intestine Large | Cecum, Colon | Signet Ring Carcinoma |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Spleen | | Hematopoiesis |
| Stomach | | Hyperplasia, Focal |
| Testis | | Degeneration, Nos |
| Unspecified | Multiple Organs Nos | Signet Ring Carcinoma, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_529

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------|--------------------------------|
| Esophagus | | Hyperkeratosis |
| Heart | Endocardium Nos | Inflammation, Chronic |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Preputial gland | | Carcinoma, Nos |
| Skin | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_530

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------|---|
| Esophagus | | Acanthosis Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Descending, Colon | Adenomatous Polyp, Nos |
| | Cecum, Colon | Necrosis, Focal |
| Kidney | | Inflammation, Chronic Focal |
| Liver | | Focal Cellular Change Granuloma, Nos |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|-------------|---------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Spleen | | Hematopoiesis |
| Testis | Tunica Vaginalis | Mesothelioma, Malignant |
| Unspecified | Multiple Organs Nos | Mesothelioma, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_532

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| | Cecum, Colon | Hyperplasia, Focal |
| Intestine Small | Duodenum | Leiomyosarcoma |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_533

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenocarcinoma In Adenomatous Polyp

Ascending Colon, Colon

Adenocarcinoma, Nos

Cecum, Colon

Mucinous Cystadenocarcinoma

Kidney

Inflammation, Chronic

Testis

Degeneration, Nos

Unspecified

Multiple Organs Nos

Mucinous Cystadenocarcinoma, Metastatic

Zymbal gland

Keratoacanthoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_534

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Esophagus

Cortex Nos

Metamorphosis, Fatty
Acanthosis
Hyperkeratosis
Inflammation, Chronic
Inflammation, Chronic
Focal Cellular Change
Hepatocellular Carcinoma

Kidney
Liver

Lung
Lymph node
Testis
Thyroid
Zymbal gland

Mandibular Lymph Node

Inflammation, Chronic
Hyperplasia, Lymphoid
Interstitial-Cell Tumor
Hyperplasia, C Cell
Abscess, Nos
Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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 | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Intestine Small | Duodenum | Signet Ring Carcinoma |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Atrophy, Focal |
| Preputial gland | | Carcinoma, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thymus | | Congestion, Nos |
| | | Hemorrhage |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Cortex Nos
Cortex Nos
Medulla
Cortex Nos

Angiectasis
Hyperplasia, Focal
Hyperplasia, Focal
Metamorphosis, Fatty
Pheochromocytoma

Epididymis

Intestine Large

Kidney

Liver

Descending, Colon

Necrosis, Fat
Adenocarcinoma In Adenomatous Polyp

Inflammation, Chronic
Focal Cellular Change

Bile Duct

Hyperplasia, Nos
Neoplastic Nodule

Lung

Stomach

Testis

Thyroid

Inflammation, Chronic
Acanthosis

Interstitial-Cell Tumor

Cyst, Follicular Nos

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|-----------------|-----------------------|--------------------------------|
| Brain | Meninges | Inflammation, Acute |
| Ear | | Squamous Cell Carcinoma |
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| Testis | | Hyperplasia, Interstitial Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|------------|-------------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | | Hepatocellular Carcinoma |
| Lung | | C-Cell Carcinoma, Metastatic |
| | | Inflammation, Chronic |
| Lymph node | Cervical Lymph Node Nos | C-Cell Carcinoma, Metastatic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|-------------|---------------------|--------------------------------|
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Spleen | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_540

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

Lung

Inflammation, Chronic

Parathyroid gland

Inflammation, Chronic

Testis

Adenoma, Nos

Zymbal gland

Hyperplasia, Interstitial Cell

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Esophagus
Intestine Large
Lung

Descending, Colon

Hyperkeratosis
Adenocarcinoma In Adenomatous Polyp
Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_542

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large

Medulla
Myocardium Nos
Cecum, Colon
Cecum, Colon

Hyperplasia, Focal
Fibrosis, Multifocal
Inflammation, Acute
Necrosis, Focal

Kidney
Liver

Bile Duct

Inflammation, Chronic
Hyperplasia, Nos
Metamorphosis, Fatty

Lung
Lymph node
Pituitary gland
Testis

Mesenteric Lymph Node

Inflammation, Chronic
Hyperplasia, Lymphoid
Hyperplasia, Focal
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Keratoacanthoma
Squamous Cell Papilloma

Zymbal gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Intestine Large

Ascending Colon, Colon

Mucinous Cystadenocarcinoma

Lung

Inflammation, Chronic

Lymph node

Celiac Lymph Node

Mucinous Cystadenocarcinoma, Metastatic

Unspecified

Abdominal Cavity

Mucinous Cystadenocarcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Adrenal gland
Heart
Intestine Large
Liver

Myocardium Nos
Transverse Colon, Colon

Bile Duct

Metamorphosis, Fatty
Degeneration, Nos
Adenomatous Polyp, Nos
Focal Cellular Change
Hyperplasia, Nos
Metamorphosis, Fatty
Necrosis, Nos
Inflammation, Chronic
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

Lung
Testis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_545

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|-----------------------------|
| Esophagus | | Hyperkeratosis |
| Heart | Cardiac Valve | Inflammation, Chronic Focal |
| Intestine Large | Transverse Colon, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mandibular Lymph Node | Lymphangiectasis |
| Prostate | | Hyperplasia, Focal |
| | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Head | Sarcoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_546

TRT#: 2
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|---------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic |
| Intestine Large | Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos |
| | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Metamorphosis, Fatty |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Ileocolic Lymph Node | Hyperplasia, Lymphoid |
| | Ileocolic Lymph Node | Lymphangiectasis |
| Preputial gland | | Carcinoma, Nos |
| Skin | Back | Cyst, Epidermal Inclusion |
| Testis | | Degeneration, Nos |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

Zymbal gland

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_548

TRT#: 2
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large

Cortex Nos
Myocardium Nos
Transverse Colon, Colon
Cecum, Colon

Kidney
Liver

Bile Duct
Bile Duct

Lung
Prostate
Stomach
Testis

Metamorphosis, Fatty
Inflammation, Chronic Diffuse
Adenomatous Polyp, Nos
Hyperplasia, Focal
Inflammation, Chronic
Degeneration, Nos
Hepatitis, Toxic
Hyperplasia, Nos
Inflammation, Chronic
Inflammation, Chronic
Inflammation, Chronic Focal
Acanthosis
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Hyperplasia, C Cell
Leukemia, Monocytic

Thyroid
Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

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

| | | |
|-----------------|-------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_550

TRT#: 2
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Intestine Large
Kidney
Liver
Lung
Testis
Unspecified

Cecum, Colon

Mucinous Cystadenocarcinoma
Inflammation, Chronic
Metamorphosis, Fatty
Inflammation, Chronic
Degeneration, Nos
Mucinous Cystadenocarcinoma, Metastatic

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_676

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 | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hepatitis, Toxic |
| | | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Cystic Ducts |
| | | Hyperplasia, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Skin | | Basal-Cell Carcinoma |
| | Head | Keratoacanthoma |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | | Fibroma |
| | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_677

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Congestion, Nos |
| | | Pigmentation, Nos |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Fibrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Adenoma |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_678

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Eye | Retina | Cataract Degeneration, Nos Phthisis Bulbi |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | Tubule | Inflammation, Chronic Pigmentation, Nos |
| Liver | Bile Duct | Degeneration, Nos Granuloma, Nos Hyperplasia, Nos Pigmentation, Nos |
| Lung | Pancreatic Lymph Node | Inflammation, Chronic Pigmentation, Nos |
| Lymph node | Islets | Atrophy, Focal Islet-Cell Carcinoma |
| Pancreas | | Abscess, Nos |
| Prostate | | Hematopoiesis |
| Spleen | | Degeneration, Nos |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Cystic Follicles Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_679

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Retina

Heart

Kidney

Lung

Pancreas

Spleen

Testis

Thyroid

Unspecified

Cornea

Myocardium Nos

Pheochromocytoma

Degeneration, Nos

Hemorrhage

Inflammation, Chronic Focal

Inflammation, Chronic Focal

Inflammation, Chronic

Inflammation, Chronic

Squamous Cell Carcinoma, Metastatic

Atrophy, Focal

Fibrosis, Focal

Hemosiderosis

Interstitial-Cell Tumor

Cyst, Follicular Nos

Pigmentation, Nos

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_680

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|--------------------------------|
| Adrenal gland | | Pheochromocytoma |
| Bone | Skull | Osteopetrosis |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | | Granuloma, Nos |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Alveolar/Bronchiolar Carcinoma |
| | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Oral mucosa | | Squamous Cell Carcinoma |
| Pancreas | | Acinar-Cell Adenoma |
| Spleen | | Hemosiderosis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_681

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------------|--|
| Eye | Retina Crystalline Lens | Degeneration, Nos Rupture Synechia, Posterior Vascularization |
| Heart | Vitreous Body | Inflammation, Chronic Focal |
| Kidney | Myocardium Nos | Inflammation, Chronic |
| Liver | | Hemorrhage Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Pituitary gland | | Angiectasis Carcinoma, Nos |
| Spleen | | Hemosiderosis |
| Stomach | | Acanthosis Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_682

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|-----------------------------|
| Bone | Thoracic Vertebra Nos | Osteosarcoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Pancreatic Lymph Node | Lymphangiectasis |
| Parathyroid gland | | Hyperplasia, Nos |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_683

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Epididymis | | Necrosis, Fat |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Small | Duodenum | Ulcer, Perforated |
| Kidney | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mesenteric Lymph Node | Pigmentation, Nos |
| Pancreas | | Atrophy, Focal |
| | | Periarteritis |
| Preputial gland | | Carcinoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Edema, Nos |
| | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_684

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|---|
| Adrenal gland | | Pheochromocytoma |
| Eye | Retina | Degeneration, Nos Hemorrhage Vascularization |
| | Vitreous Body | |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Small | Mesentery Nos | Inflammation, Chronic |
| Kidney | | Inflammation, Chronic Pigmentation, Nos |
| | Tubule | Focal Cellular Change |
| Liver | | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic Hyperplasia, Interstitial Cell |
| Lung | | Interstitial-Cell Tumor |
| Testis | | Cyst, Follicular Nos Hyperplasia, C Cell |
| | | Leukemia, Monocytic |
| Thyroid | | |
| Unspecified | Multiple Organs Nos | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_685

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Testis

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_686

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|---------------|------------------------|-----------------------------|
| Adrenal gland | | Pheochromocytoma |
| Blood vessel | Sup.Panc-Duod.Artery | Periarteritis |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Lymphangiectasis |
| Spleen | | Fibrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Hyperplasia, Focal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_687

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Eye | | Cataract |
| Heart | Retina | Degeneration, Nos |
| Kidney | Myocardium Nos | Inflammation, Chronic Diffuse |
| | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| Liver | Tubule | Pigmentation, Nos |
| | | Degeneration, Nos |
| | Bile Duct | Hyperplasia, Nos |
| | | Metamorphosis, Fatty |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Pancreatic Lymph Node | Pigmentation, Nos |
| Mammary gland | | Cystic Ducts |
| Pancreas | | Inflammation, Chronic Focal |
| Prostate | | Abscess, Nos |
| Seminal vesicle | | Cyst, Nos |
| Spleen | | Fibrosis, Focal |
| | | Hemosiderosis |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:25

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_688

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Lung

Skin

Spleen

Testis

Thyroid

Unspecified

Retina

Myocardium Nos

Tubule

Multiple Organs Nos

Pheochromocytoma

Degeneration, Nos

Inflammation, Chronic Diffuse

Inflammation, Chronic

Pigmentation, Nos

Inflammation, Chronic

Keratoacanthoma

Fibrosis, Focal

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

C-Cell Carcinoma

Fibroma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_689

TRT#: 3
DOSE: 10000 PPM

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 | Inflammation, Chronic Diffuse |
| Kidney | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| Liver | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Ileocolic Lymph Node | Lymphangiectasis |
| Pituitary gland | | Adenoma, Nos |
| Skin | Back | Fibroma |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| | | Ulcer, Perforated |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Cyst, Follicular Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:25
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_690

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------|---------------------|-----------------------------|
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Degeneration, Nos |
| | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Metamorphosis, Fatty |
| | | Necrosis, Focal |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| | | Pigmentation, Nos |
| Pancreas | | Acinar-Cell Adenoma |
| Skin | Flank | Basal-Cell Carcinoma |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_691

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Eye | Retina | Cataract |
| | | Degeneration, Nos |
| | | Hemorrhage |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Fibroadenoma |
| Pancreas | | Acinar-Cell Adenoma |
| Pituitary gland | | Adenoma, Nos |
| | | Angiectasis |
| Preputial gland | | Carcinoma, Nos |
| Skin | Back | Keratoacanthoma |
| | Tail | Squamous Cell Papilloma |
| Spleen | Follicles | Atrophy, Focal |
| | | Fibrosis, Focal |
| | | Hematopoiesis |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_692

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|------------------------|---|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Blood vessel | Abdominal Aorta | Mineralization |
| Eye | Retina | Cataract |
| Heart | Myocardium Nos | Degeneration, Nos |
| Kidney | Cortex | Inflammation, Chronic Focal Cyst, Nos |
| Lung | Alveoli | Inflammation, Chronic Histiocytosis |
| Lymph node | Mediastinal Lymph Node | Inflammation, Chronic Pigmentation, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Abscess, Nos |
| Stomach | | Mineralization |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Urinary bladder | | Hyperplasia, Papillary Inflammation, Chronic Focal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_693

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 |
| | | Hemorrhage |
| | Cornea | Inflammation, Chronic Focal |
| | | Synechia, Posterior |
| Kidney | Cortex | Cyst, Nos |
| Liver | | Degeneration, Nos |
| | | Focal Cellular Change |
| | | Hepatocellular Carcinoma |
| Lymph node | Mediastinal Lymph Node | Erythrophagocytosis |
| | Mandibular Lymph Node | Lymphangiectasis |
| Mammary gland | | Fibroadenoma |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Hyperplasia, Focal |
| | | Periarteritis |
| Skin | Tail | Keratoacanthoma |
| Spleen | | Hematopoiesis |
| Stomach | | Fibrosis, Diffuse |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic |
| | Mediastinum Nos | Periarteritis |
| | Multiple Organs Nos | Pigmentation, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_694

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|------------------------|-----------------------------|
| Brain | Cerebrum | Astrocytoma |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hyperplasia, Lymphoid |
| Prostate | | Hyperplasia, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_695

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Degeneration, Nos |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Pancreatic Lymph Node | Pigmentation, Nos |
| Pancreas | | Atrophy, Focal |
| | Islets | Hyperplasia, Focal |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Back | Hyperkeratosis |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | | Fibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_696

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|--------------------------|-------------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| | Myocardium Nos | Mineralization |
| Intestine Large | Intramuscular Anal Gland | Cystic Ducts |
| Intestine Small | Duodenum | Necrosis, Focal |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| Mammary gland | | Cystic Ducts |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Seminal vesicle | | Cyst, Nos |
| Skin | Chest | Cyst, Epidermal Inclusion |
| Stomach | | Inflammation, Acute Focal |
| | | Ulcer, Perforated |
| Testis | | Degeneration, Nos |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|-----------------------|-------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Cecum, Colon | Edema, Nos |
| | Cecum, Colon | Inflammation, Acute Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Acute Focal |
| | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mesenteric Lymph Node | Pigmentation, Nos |
| Mammary gland | | Fibroadenoma |
| Pancreas | | Ectopia |
| Pituitary gland | | Abscess, Nos |
| | | Adenoma, Nos |
| | | Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Cyst, Follicular Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_698

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Heart

Medulla
Myocardium Nos

Kidney
Liver
Lung
Pituitary gland
Prostate
Spleen

Hyperplasia, Focal
Inflammation, Chronic Diffuse
Thrombosis, Nos
Inflammation, Chronic
Necrosis, Focal
Inflammation, Chronic
Adenoma, Nos
Inflammation, Chronic Focal
Hematopoiesis
Hemosiderosis
Interstitial-Cell Tumor
Cystic Ducts

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_699

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 | Inflammation, Chronic Focal |
| Intestine Small | Mesentery Nos | Inflammation, Chronic Focal |
| Kidney | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Lymph node | Pancreatic Lymph Node | Pigmentation, Nos |
| Mammary gland | | Fibroadenoma |
| | | Hyperplasia, Diffuse |
| Pancreas | | Acinar-Cell Carcinoma |
| | | Ectopia |
| Skin | Back | Acanthosis |
| | Back | Hyperkeratosis |
| Stomach | | Acanthosis |
| | | Inflammation, Chronic Diffuse |
| | | Ulcer, Perforated |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|-----------------------|--|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Adenomatous Polyp, Nos |
| Kidney | Tubule | Inflammation, Chronic Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hemorrhage |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mesenteric Lymph Node | Lymphangiectasis |
| Mammary gland | | Fibroadenoma |
| Prostate | | Abscess, Nos |
| | | Inflammation, Chronic Focal |
| Stomach | | Acanthosis Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Axilla | Fibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
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

| | | |
|-----------------|---------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Eye | Retina | Degeneration, Nos |
| | Anterior Chamber | Empyema |
| | Cornea | Inflammation, Chronic Focal |
| Kidney | Medulla | Inflammation, Acute Focal |
| | Medulla | Necrosis, Focal |
| Prostate | | Abscess, Nos |
| | | Inflammation, Acute Diffuse |
| Seminal vesicle | | Abscess, Nos |
| | | Hyperplasia, Diffuse |
| Spleen | | Hemosiderosis |
| Stomach | Muscularis | Degeneration, Nos |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic |
| | Multiple Organs Nos | Mineralization |
| Urinary bladder | | Hemorrhage |
| | | Hyperplasia, Diffuse |
| | | Inflammation, Acute Diffuse |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|-----------------------|----------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Bone marrow | | Hyperplasia, Nos |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos |
| | | Focal Cellular Change |
| | | Hepatitis, Toxic |
| Lung | | Hyperplasia, Alveolar Epithelium |
| | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Lymphoid |
| | Pancreatic Lymph Node | Hyperplasia, Lymphoid |
| | Pancreatic Lymph Node | Pigmentation, Nos |
| Pancreas | | Atrophy, Focal |
| Preputial gland | | Cystic Ducts |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|--------------|---------------------|--------------------------------|
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Pancreas | Islets | Islet-Cell Adenoma |
| Spleen | | Fibrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| Unspecified | Multiple Organs Nos | Interstitial-Cell Tumor |
| Zymbal gland | | Leukemia, Monocytic |
| | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_704

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------|---|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change Leukocytosis, Nos Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Fibroadenoma |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| Spleen | | Hemosiderosis |
| Stomach | | Acanthosis Hyperkeratosis Inflammation, Chronic Diffuse |
| Testis | | Ulcer, Perforated |
| Thymus | | Interstitial-Cell Tumor |
| Thyroid | | Cyst, Nos C-Cell Carcinoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|-----------------------|-------------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Small | Jejunum | Adenocarcinoma In Adenomatous Polyp |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Spleen | | Hematopoiesis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_706

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|--|--|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Brain | Cerebrum Cerebellum Nos | Astrocytoma Astrocytoma, Invasive |
| Eye | Retina | Cataract Degeneration, Nos |
| Liver | | Leukocytosis, Nos Necrosis, Focal Pigmentation, Nos |
| Lymph node | Mesenteric Lymph Node Pancreatic Lymph Node | Hyperplasia, Reticulum Cell Pigmentation, Nos |
| Pituitary gland | | Hyperplasia, Focal |
| Preputial gland | | Carcinoma, Nos |
| Prostate | | Abscess, Nos |
| Stomach | | Acanthosis Hyperkeratosis Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor Periarteritis |
| Thyroid | | C-Cell Carcinoma Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic |
| Urinary bladder | | Hyperplasia, Epithelial |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_707

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Descending, Colon | Hyperplasia, Epithelial |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Neoplastic Nodule |
| Lung | | Alveolar/Bronchiolar Carcinoma |
| Pancreas | | Ectopia |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_708

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|--------------|--|--|
| Kidney | | Inflammation, Chronic Nephrosis, Hydro |
| Liver | Bile Duct Bile Duct | Hyperplasia, Nos Inflammation, Chronic Metamorphosis, Fatty Necrosis, Focal |
| Lung | | Sarcoma, Nos, Metastatic |
| Lymph node | Mesenteric Lymph Node Mesenteric Lymph Node | Hyperplasia, Reticulum Cell Pigmentation, Nos |
| Spleen | | Hematopoiesis |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Unspecified | Perineum Multiple Organs Nos | Sarcoma, Nos Sarcoma, Nos, Invasive |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_709

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------|-------------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Bone marrow | | Hyperplasia, Nos |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Inflammation, Chronic |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Hyperplasia, Diffuse |
| Pituitary gland | | Cyst, Nos |
| Stomach | | Acanthosis |
| | | Inflammation, Chronic Diffuse |
| Testis | | Ulcer, Perforated |
| Thyroid | | Interstitial-Cell Tumor |
| | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_710

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|-------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Brain | Cerebrum | Carcinoma, Nos, Invasive |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Hepatitis, Toxic |
| Pancreas | Islets | Islet-Cell Carcinoma |
| Pituitary gland | | Carcinoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Hemorrhage |
| | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-------------|---------------------|--------------------------------|
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hemorrhage |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_712

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Testis

Degeneration, Nos

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

Unspecified

Tail

Follicular-Cell Carcinoma

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Cortex Nos

Metamorphosis, Fatty

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Pancreas

Atrophy, Focal

Unspecified

Abdomen

Lipoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_714

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Kidney
Lung
Lymph node
Pancreas
Skin
Testis

Cortex Nos
Cecum, Colon

Mesenteric Lymph Node

Shoulder

Metamorphosis, Fatty
Necrosis, Focal
Inflammation, Chronic
Inflammation, Chronic
Hyperplasia, Reticulum Cell
Ectopia
Cyst, Epidermal Inclusion
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
C-Cell Carcinoma
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|-----------------------|-------------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Eye | Retina | Degeneration, Nos |
| | Cornea | Inflammation, Chronic Diffuse |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Small | Mesentery Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | | Metamorphosis, Fatty |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Erythrophagocytosis |
| Pituitary gland | | Adenoma, Nos |
| | | Cyst, Nos |
| Prostate | | Abscess, Nos |
| | | Inflammation, Acute Diffuse |
| Spleen | | Hemosiderosis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Focal |
| | | Ulcer, Perforated |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Axilla Nos | Fibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_716

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Necrosis, Focal |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Small | Ileum, Ileum | Abscess, Nos |
| | Ileum, Ileum | Diverticulum |
| | Ileum, Ileum | Metaplasia, Osseous |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos Hepatitis, Toxic |
| Mammary gland | | Cystic Ducts Hyperplasia, Diffuse |
| Prostate | | Abscess, Nos Cystic Ducts |
| | Coagulating Gland | Inflammation, Chronic Diffuse Squamous Cell Carcinoma |
| Spleen | | Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Carcinoma |
| Unspecified | Back | Fibroma |
| | Multiple Organs Nos | Leukemia, Monocytic |
| Urinary bladder | | Hyperplasia, Diffuse Inflammation, Chronic Diffuse |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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 | | Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | | Mixed Tumor, Malignant |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Oral mucosa | | Squamous Cell Carcinoma |
| Pancreas | | Acinar-Cell Adenoma |
| Preputial gland | | Abscess, Nos |
| | | Cystic Ducts |
| | | Hyperplasia, Nos |
| Salivary gland | Submaxillary Gland Nos | Inflammation, Chronic Diffuse |
| Stomach | | Acanthosis |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Back | Fibroma |
| | Abdominal Cavity | Necrosis, Fat |
| | Multiple Organs Nos | Squamous Cell Carcinoma, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_718

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|-------------------------------------|---|
| Adrenal gland | Cortex Nos Medulla Cortex Nos | Hyperplasia, Focal Hyperplasia, Focal Metamorphosis, Fatty |
| Eye | Retina | Cataract Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Tubule Bile Duct Bile Duct | Pigmentation, Nos Hyperplasia, Nos Inflammation, Chronic Pigmentation, Nos |
| Lung | | Histiocytosis Inflammation, Chronic Pigmentation, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| Skin | | Fibrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
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

| | | |
|-----------------|--------------------------|--|
| Adrenal gland | Medulla Cortex Nos | Hyperplasia, Focal Metamorphosis, Fatty Pheochromocytoma |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos Atrium | Inflammation, Chronic Diffuse Thrombosis, Nos |
| Kidney | Tubule | Inflammation, Chronic Pigmentation, Nos |
| Liver | | Metamorphosis, Fatty Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Pancreas | Islets | Atrophy, Focal Islet-Cell Adenoma |
| Pituitary gland | | Adenoma, Nos |
| Preputial gland | | Carcinoma, Nos |
| Prostate | | Abscess, Nos Inflammation, Chronic Diffuse |
| Skin | Chest Chest | Acanthosis Hyperkeratosis |
| Stomach | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_720

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney
Liver

Medulla
Myocardium Nos

Hyperplasia, Focal
Inflammation, Chronic Diffuse
Inflammation, Chronic
Angiectasis

Bile Duct

Degeneration, Nos
Inflammation, Chronic
Metamorphosis, Fatty
Inflammation, Chronic

Lung
Lymph node
Pancreas
Spleen
Stomach

Mesenteric Lymph Node
Islets

Hemorrhage
Islet-Cell Carcinoma
Hemosiderosis
Acanthosis
Hyperkeratosis
Inflammation, Chronic Diffuse
Ulcer, Perforated
Interstitial-Cell Tumor
C-Cell Carcinoma
Cystic Ducts

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_721

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Inflammation, Chronic Focal

Kidney

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Nos

Lung

Granuloma, Nos

Lymph node

Mesenteric Lymph Node

Inflammation, Chronic

Preputial gland

Hyperplasia, Reticulum Cell

Testis

Squamous Cell Carcinoma

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_722

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|--------------------------|--|
| Adrenal gland | Medulla Cortex Nos | Hyperplasia, Focal Metamorphosis, Fatty Pheochromocytoma |
| Heart | Myocardium Nos Atrium | Inflammation, Chronic Focal Thrombosis, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Necrosis, Focal |
| Lung | | Carcinoma, Nos, Metastatic Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Cystic Ducts |
| Pancreas | | Atrophy, Focal |
| Preputial gland | | Carcinoma, Nos |
| Spleen | | Hematopoiesis |
| Stomach | | Inflammation, Chronic Focal Necrosis, Focal |
| Testis | | Degeneration, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_723

TRT#: 3
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 | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Degeneration, Nos |
| Lung | | Inflammation, Chronic |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Hemosiderosis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| | | Follicular-Cell Carcinoma |
| Unspecified | Flank | Fibroma |
| Urinary bladder | | Hyperplasia, Diffuse |
| | | Inflammation, Chronic Diffuse |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
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

| | | |
|-------------------|---------------------|-------------------------------|
| Bone marrow | | Hypoplasia, Nos |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Hyperplasia, Diffuse |
| Pancreas | | Ectopia |
| Parathyroid gland | | Hyperplasia, Nos |
| Spleen | | Hemangiosarcoma |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|--------------|-----------------------|-----------------------------|
| Kidney | | Inflammation, Chronic |
| Liver | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Lymphangiectasis |
| Pancreas | Islets | Islet-Cell Adenoma |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Ear | Fibrosarcoma |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_726

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---|--|
| Adrenal gland | Medulla Cortex Nos | Hyperplasia, Focal Metamorphosis, Fatty Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos |
| | Bile Duct | Hyperplasia, Nos |
| Lymph node | Mediastinal Lymph Node Mesenteric Lymph Node Mediastinal Lymph Node | Hemorrhage Hyperplasia, Reticulum Cell Pigmentation, Nos |
| Pancreas | | Acinar-Cell Adenoma |
| Prostate | | Abscess, Nos Inflammation, Chronic |
| Seminal vesicle | | Cystic Ducts |
| Stomach | | Acanthosis Hyperkeratosis |
| | | Inflammation, Chronic Focal |
| Testis | | Degeneration, Nos Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Urinary bladder | | Hemorrhage Hyperplasia, Epithelial Inflammation, Chronic Diffuse |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|----------------|--------------------------------|
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Pancreas | | Atrophy, Focal |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|---------------------|-------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Cyst, Follicular Nos |
| | | Hyperplasia, C Cell |
| Unspecified | Back | Fibroma |
| | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_729

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|---|--|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct Bile Duct | Hyperplasia, Nos Inflammation, Chronic Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node Mesenteric Lymph Node | Hemorrhage Hyperplasia, Reticulum Cell |
| Pancreas | | Acinar-Cell Adenoma |
| Skin | Islets | Hyperplasia, Focal |
| Spleen | Tail | Cyst, Epidermal Inclusion |
| Testis | | Hemorrhage |
| Unspecified | Multiple Organs Nos | Interstitial-Cell Tumor Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_730

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|-------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Blood vessel | Aorta Nos | Mineralization |
| Epididymis | | Lipoma |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Colon | Inflammation, Acute Focal |
| | Colon | Necrosis, Focal |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Inflammation, Chronic Diffuse |
| Seminal vesicle | | Cystic Ducts |
| | | Hyperplasia, Diffuse |
| | | Inflammation, Chronic Focal |
| Spleen | Follicles | Atrophy, Nos |
| | | Hemosiderosis |
| Stomach | Muscularis | Degeneration, Nos |
| | | Inflammation, Acute Focal |
| | | Necrosis, Focal |
| Testis | | Degeneration, Nos |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Urinary bladder | | Inflammation, Chronic Focal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_731

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|---------------------|---|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Bone marrow | | Hyperplasia, Nos |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Pancreas | | Acinar-Cell Adenoma |
| Spleen | | Fibrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | | Fibroma |
| | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_732

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Lymph node

Mediastinal Lymph Node

Mandibular Lymph Node

Mesenteric Lymph Node

Pancreas

Testis

Unspecified

Multiple Organs Nos

Inflammation, Chronic

Hemorrhage

Hyperplasia, Lymphoid

Hyperplasia, Reticulum Cell

Atrophy, Focal

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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 | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Lung | Bronchus | Bronchiectasis |
| | | Inflammation, Chronic |
| Lymph node | Pancreatic Lymph Node | Pigmentation, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Hematopoiesis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | | Liposarcoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_734

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | Cortex | Cyst, Nos Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_735

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|----------------------------------|
| Adrenal gland | | Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Metamorphosis, Fatty |
| Lung | | Hyperplasia, Alveolar Epithelium |
| | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Nose | Squamous Cell Papilloma |
| Spleen | | Hemosiderosis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Urinary bladder | | Hyperplasia, Epithelial |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_736

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Lung

Prostate

Testis

Urinary bladder

Myocardium Nos

Pheochromocytoma, Malignant

Inflammation, Chronic Focal

Inflammation, Chronic

Inflammation, Chronic

Liposarcoma, Metastatic

Inflammation, Acute/Chronic

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Hyperplasia, Diffuse

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|---------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Epididymis | | Necrosis, Fat |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Hepatitis, Toxic |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Preputial gland | | Carcinoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| 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: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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 | Retina | Degeneration, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Lymphoid |
| | Ileocolic Lymph Node | Lymphangiectasis |
| | Pancreatic Lymph Node | Pigmentation, Nos |
| Pancreas | | Atrophy, Focal |
| Spleen | | Hematopoiesis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| | | Follicular-Cell Carcinoma |
| Unspecified | Back | Fibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_739

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|--------------------------|---|
| Intestine Large | Perianal Tissue Colon | Inflammation, Chronic Parasitism |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Metaplasia, Osseous |
| Pituitary gland | | Hyperplasia, Reticulum Cell |
| Prostate | | Adenoma, Nos |
| Seminal vesicle | | Inflammation, Chronic Focal Cyst, Nos |
| Skin | Circumanal Gland | Hyperplasia, Epithelial |
| Testis | | Cystic Ducts Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Diaphragm Nos | Hernia, Nos |
| Urinary bladder | | Hemorrhage Inflammation, Chronic Diffuse |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Inflammation, Chronic Focal

Kidney

Inflammation, Chronic

Testis

Degeneration, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_741

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|----------------|----------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Hyperplasia, Focal |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Granuloma, Nos |
| Lung | | Hyperplasia, Alveolar Epithelium |
| | | Inflammation, Chronic |
| Spleen | | Pigmentation, Nos |
| | | Hematopoiesis |
| | | Hemosiderosis |
| Stomach | | Acanthosis |
| | | Adenomatous Polyp, Nos |
| | | Necrosis, Focal |
| Testis | | Degeneration, Nos |
| | | Interstitial-Cell Tumor |
| Unspecified | Back | Neurofibroma |
| | Sacral Region | Neurofibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_742

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Small
Kidney
Lung

Mesentery Nos

Granuloma, Nos
Inflammation, Chronic
Inflammation, Chronic
Pneumonia, Aspiration

Lymph node
Prostate
Stomach
Testis

Mesenteric Lymph Node

Hyperplasia, Reticulum Cell
Inflammation, Chronic Focal
Acanthosis
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Metaplasia, Squamous

Trachea

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_743

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|---------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Testis | | Degeneration, Nos |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_744

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|-----------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Testis | | Interstitial-Cell Tumor |
| | Tunica Vaginalis | Mesothelioma, Malignant |
| Unspecified | Multiple Organs Nos | Mesothelioma, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_745

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|---------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Prostate | | Inflammation, Acute Focal |
| Spleen | | Fibrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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 | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Head | Cyst, Epidermal Inclusion |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| Testis | | Ulcer, Perforated |
| Thyroid | | Interstitial-Cell Tumor |
| | | Cyst, Follicular Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_747

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------------|---|
| Adrenal gland | Cortex Nos Medulla | Hyperplasia, Focal Hyperplasia, Focal |
| Eye | Cortex Nos Retina | Metamorphosis, Fatty Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Cecum, Colon Cecum, Colon | Hemorrhage Necrosis, Focal |
| Kidney | Tubule | Inflammation, Chronic Pigmentation, Nos |
| Lung | | C-Cell Carcinoma, Metastatic Inflammation, Chronic |
| Mammary gland | | Fibroadenoma |
| Pancreas | Acinus | Acinar-Cell Adenoma Hyperplasia, Focal |
| Pituitary gland | | Adenoma, Nos Angiectasis |
| Stomach | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_748

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|------------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Bone marrow | | Congestion, Nos |
| | | Hypoplasia, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Pigmentation, Nos |
| Liver | Bile Duct | Hepatitis, Toxic |
| | | Hyperplasia, Nos |
| | | Necrosis, Focal |
| | | Pigmentation, Nos |
| Lymph node | Mediastinal Lymph Node | Atrophy, Nos |
| Pancreas | | Atrophy, Focal |
| Spleen | Follicles | Atrophy, Nos |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic |
| | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_749

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Large

Large Intestine, Colon

Inflammation, Acute

Kidney

Inflammation, Chronic

Lung

Inflammation, Acute Focal

Stomach

Acanthosis

Thyroid

Hyperkeratosis

Unspecified

Multiple Organs Nos

C-Cell Carcinoma

C-Cell Carcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_750

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | | Cortical Adenoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos |
| | Bile Duct | Focal Cellular Change |
| | | Hyperplasia, Nos |
| | | Necrosis, Focal |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Hyperplasia, Nos |
| Pancreas | | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Skin | Back | Acanthosis |
| | Back | Carcinoma In Situ, Nos |
| | Back | Hyperkeratosis |
| | Back | Inflammation, Chronic Focal |
| Spleen | | Hemosiderosis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Focal |
| | | Ulcer, Perforated |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_751

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|--|---|
| Adrenal gland | Cortex Nos Medulla | Hyperplasia, Focal Hyperplasia, Focal |
| Eye | Cortex Nos Retina | Metamorphosis, Fatty Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Small | Mesentery Nos | Mesothelioma, Malignant |
| Kidney | | Inflammation, Chronic Lipoma |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node Cervical Lymph Node Nos | Erythrophagocytosis Pigmentation, Nos |
| Pancreas | | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Preputial gland | | Atrophy, Nos Cystic Ducts |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos Multiple Organs Nos | Leukemia, Monocytic Mesothelioma, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|---------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Pancreas | | Atrophy, Focal |
| Prostate | | Inflammation, Chronic Focal |
| Seminal vesicle | | Hyperplasia, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_753

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | Tubule | Carcinoma, Nos Inflammation, Chronic Pigmentation, Nos |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pituitary gland | | Adenoma, Nos |
| Preputial gland | | Cystic Ducts |
| Spleen | | Fibrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_754

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | Tubule | Cyst, Nos Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hemorrhage |
| | Pancreatic Lymph Node | Hemorrhage |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mandibular Lymph Node | Lymphangiectasis |
| | Pancreatic Lymph Node | Pigmentation, Nos Inflammation, Chronic Focal |
| Prostate | | Fibrosis, Focal |
| Skin | Back | Interstitial-Cell Tumor |
| Testis | | C-Cell Adenoma |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Liver

Lung

Lymph node

Oral mucosa

Pancreas

Pituitary gland

Spleen

Stomach

Testis

Thyroid

Myocardium Nos

Mandibular Lymph Node

Palate

Cortical Adenoma

Inflammation, Chronic Diffuse

Inflammation, Chronic

Focal Cellular Change

Inflammation, Chronic

Hyperplasia, Lymphoid

Squamous Cell Carcinoma

Atrophy, Focal

Angiectasis

Hemosiderosis

Acanthosis

Inflammation, Chronic Diffuse

Interstitial-Cell Tumor

C-Cell Carcinoma

Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|---------------|----------------|--------------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Hyperplasia, Diffuse |
| Pancreas | | Atrophy, Focal |
| | Acinus | Hyperplasia, Focal |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Hemosiderosis |
| Stomach | | Acanthosis |
| | | Edema, Nos |
| | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_757

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Dilatation, Nos |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Prostate | | Inflammation, Chronic Focal |
| Seminal vesicle | | Cyst, Nos |
| Spleen | | Hematopoiesis |
| Stomach | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Groin | Fibrosarcoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_758

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|--|--|
| Adrenal gland | Cortex Nos Medulla | Angiectasis Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Leiomyoma |
| Kidney | Tubule | Inflammation, Chronic Pigmentation, Nos |
| Liver | | Focal Cellular Change Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node Mesenteric Lymph Node Mandibular Lymph Node | Hyperplasia, Lymphoid Hyperplasia, Reticulum Cell Lymphangiectasis |
| Mammary gland | | Fibroadenoma |
| Pancreas | | Acinar-Cell Adenoma Acinar-Cell Carcinoma |
| Pituitary gland | | Adenoma, Nos |
| Skin | Ear | Squamous Cell Papilloma |
| Spleen | | Hematopoiesis Hyperplasia, Reticulum Cell |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Cyst, Follicular Nos Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Abscess, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_759

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------|-------------------------------|
| Adrenal gland | | Pheochromocytoma |
| | | Pheochromocytoma, Malignant |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| | | Pheochromocytoma, Metastatic |
| Pituitary gland | | Adenoma, Nos |
| | | Angiectasis |
| Preputial gland | | Cystic Ducts |
| | | Hyperkeratosis |
| Prostate | | Abscess, Nos |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| | | Ulcer, Perforated |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
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

| | | |
|---------------|----------------|----------------------------------|
| Adrenal gland | | Cortical Adenoma |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| Lung | | Alveolar/Bronchiolar Carcinoma |
| | | Hyperplasia, Alveolar Epithelium |
| | | Inflammation, Chronic |
| Mammary gland | | Fibroadenoma |
| Pancreas | | Atrophy, Diffuse |
| | | Periarteritis |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-------------------|----------------|-------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Hyperplasia, Diffuse |
| Pancreas | Islets | Islet-Cell Adenoma |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| | | Angiectasis |
| Prostate | | Hyperplasia, Focal |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_762

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|--------------|-----------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Nose | Acanthosis |
| Spleen | | Hemosiderosis |
| Stomach | | Acanthosis |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_763

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Granuloma, Nos |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mesenteric Lymph Node | Lymphangiectasis |
| Prostate | | Inflammation, Chronic Focal |
| Seminal vesicle | | Edema, Nos |
| Spleen | | Hematopoiesis |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Tail | Fibrosarcoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_764

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | | Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mesenteric Lymph Node | Lymphangiectasis |
| Mammary gland | | Fibroadenoma |
| Pancreas | | Ectopia |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Abscess, Nos |
| | | Inflammation, Chronic Focal |
| Spleen | | Hemosiderosis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| | | Periarteritis |
| Unspecified | Back | Neurofibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
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

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| | Myocardium Nos | Mineralization |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Pancreatic Lymph Node | Pigmentation, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Inflammation, Acute Diffuse |
| Seminal vesicle | | Cyst, Nos |
| | | Hyperplasia, Diffuse |
| | | Inflammation, Chronic Diffuse |
| Spleen | | Hemosiderosis |
| Stomach | Muscularis | Degeneration, Nos |
| | | Edema, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Urinary bladder | | Hemorrhage |
| | | Inflammation, Acute Focal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_767

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Adrenal gland | | Angiectasis |
| | Cortex Nos | Metamorphosis, Fatty |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| | | Synechia, Posterior |
| | Vitreous Body | Vascularization |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Small | Mesentery Nos | Periarteritis |
| Kidney | | Inflammation, Chronic |
| Liver | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Fibroadenoma |
| Pancreas | | Atrophy, Diffuse |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Back | Keratoacanthoma |
| Spleen | | Hematopoiesis |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Cystic Follicles |
| | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_768

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|-------------------------------|
| Adrenal gland | | Cortical Adenoma |
| Bone marrow | | Hypoplasia, Nos |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Small | Mesentery Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Metamorphosis, Fatty |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Erythrophagocytosis |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Pancreas | | Acinar-Cell Adenoma |
| | | Atrophy, Focal |
| Spleen | | Hemangiosarcoma |
| | | Hemosiderosis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| | | Ulcer, Perforated |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
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 | Medulla Cortex Nos | Hyperplasia, Focal Metamorphosis, Fatty Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct Capsule Bile Duct | Fibrosis Granuloma, Foreign Body Hyperplasia, Nos |
| Lung | | Congestion, Nos Granuloma, Nos Hyperplasia, Alveolar Epithelium |
| Mammary gland | | Fibroadenoma |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Abscess, Nos Inflammation, Chronic Diffuse |
| Seminal vesicle | | Hyperplasia, Diffuse Inflammation, Acute Diffuse |
| Spleen | | Hemosiderosis |
| Stomach | | Granuloma, Foreign Body |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor Periarteritis |
| Thyroid | | C-Cell Adenoma |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Colon

Parasitism

Intestine Small

Duodenum

Leiomyoma

Kidney

Inflammation, Chronic

Liver

Hepatitis, Toxic

Bile Duct

Hyperplasia, Nos

Bile Duct

Inflammation, Chronic

Necrosis, Focal

Parathyroid gland

Hyperplasia, Nos

Spleen

Fibrosis, Focal

Stomach

Inflammation, Chronic Focal

Necrosis, Focal

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

Zymbal gland

Cystic Ducts

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_771

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Large Intestine, Colon

Parasitism

Kidney

Inflammation, Chronic

Skin

Neck

Osteosarcoma

Unspecified

Abdominal Cavity

Necrosis, Fat

Multiple Organs Nos

Osteosarcoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_772

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|---------------|------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Eye | Retina | Degeneration, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Pancreas | | Atrophy, Focal |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | | Fibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_773

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Prostate

Inflammation, Acute/Chronic

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_774

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|--------------------------------------|---|
| Adrenal gland | Cortex Nos Medulla | Hyperplasia, Focal Hyperplasia, Focal |
| Eye | Cortex Nos Retina | Metamorphosis, Fatty Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | Cortex | Cyst, Nos Inflammation, Chronic |
| Liver | Tubule | Pigmentation, Nos Degeneration, Nos Focal Cellular Change Hepatitis, Toxic Neoplastic Nodule Inflammation, Chronic |
| Lung | | Fibroadenoma |
| Mammary gland | | Abscess, Nos |
| Skin | Foot And Toe Nos Foot And Toe Nos | Hyperkeratosis Fibrosis, Focal Hemosiderosis |
| Spleen | | Fibrosis, Diffuse |
| Stomach | | Interstitial-Cell Tumor |
| Testis | | Hyperplasia, C Cell |
| Thyroid | | Leukemia, Monocytic |
| Unspecified | Multiple Organs Nos | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Intestine Large

Large Intestine, Colon

Parasitism

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Pituitary gland

Hyperplasia, Focal

Testis

Hyperplasia, Interstitial Cell

Unspecified

Axilla

Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_776

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|-----------------------|-----------------------------|
| Bone marrow | | Necrosis, Focal |
| Heart | Myocardium Nos | Fibrosis, Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mesenteric Lymph Node | Lymphangiectasis |
| Skin | Nose | Squamous Cell Papilloma |
| Testis | | Interstitial-Cell Tumor |
| | Tunica Vaginalis | Mesothelioma, Malignant |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Mesothelioma, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-------------------|---------------------|-------------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Granuloma, Nos |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Hyperplasia, Diffuse |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Cyst, Nos |
| | | Hyperplasia, Focal |
| Skin | Neck | Keratoacanthoma |
| Spleen | | Fibrosis, Focal |
| | | Hemosiderosis |
| Stomach | | Acanthosis |
| | | Inflammation, Chronic Diffuse |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_778

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|-----------------------------|
| Adrenal gland | | Pheochromocytoma |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| | | Hemorrhage |
| | | Synechia, Posterior |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Degeneration, Nos |
| | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Necrosis, Focal |
| | | Inflammation, Chronic |
| Lung | | Pigmentation, Nos |
| Lymph node | Mediastinal Lymph Node | Hyperplasia, Focal |
| Pancreas | Acinus | Adenoma, Nos |
| Pituitary gland | | Hyperkeratosis |
| Preputial gland | | Hemosiderosis |
| Spleen | | Interstitial-Cell Tumor |
| Testis | | C-Cell Carcinoma |
| Thyroid | | |
| Unspecified | Flank Nos | Rhabdomyosarcoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_779

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|---------------------------------|
| Bone marrow | | Fibrosis, Myelo |
| Eye | Retina | Degeneration, Nos Hemorrhage |
| | Crystalline Lens | Rupture |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Rectum | Parasitism |
| Intestine Small | Mesentery Nos | Mesothelioma, Malignant |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Pancreatic Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | Islets | Islet-Cell Carcinoma |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_780

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|-------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Ascending Colon, Colon | Carcinoma In Situ, Nos |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Lung | | Alveolar/Bronchiolar Adenoma |
| | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| | Mesenteric Lymph Node | Pigmentation, Nos |
| Mammary gland | | Fibroadenoma |
| Pancreas | | Mesothelioma, Metastatic |
| Spleen | | Mesothelioma, Metastatic |
| Testis | | Interstitial-Cell Tumor |
| | Tunica Vaginalis | Mesothelioma, Malignant |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Mesothelioma, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_781

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|---|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Eye | | Cataract |
| Heart | Retina | Degeneration, Nos |
| Kidney | Myocardium Nos | Inflammation, Chronic Focal Inflammation, Chronic |
| Liver | Tubule | Pigmentation, Nos Degeneration, Nos Focal Cellular Change Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Ileocolic Lymph Node | Hyperplasia, Reticulum Cell |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Atrophy, Focal |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_782

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Fibrosis, Focal

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Testis

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_783

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Fibrosis, Focal

Kidney

Inflammation, Chronic

Lung

Hemorrhage

Testis

Inflammation, Chronic

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|---------------|-----------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | | Granuloma, Nos |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Spleen | | Hematopoiesis |
| Testis | | Interstitial-Cell Tumor |
| | Tunica Vaginalis | Mesothelioma, Malignant |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Mesothelioma, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_785

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|------------------------|--|
| Adrenal gland | Medulla Cortex Nos | Hyperplasia, Focal Metamorphosis, Fatty Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mediastinal Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Mammary gland | | Adenoma, Nos |
| Pancreas | | Atrophy, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Acanthosis Hyperkeratosis Inflammation, Chronic Diffuse |
| Testis | | Ulcer, Perforated Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_786

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------|---------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Pancreas | | Atrophy, Diffuse |
| Prostate | | Inflammation, Acute/Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| Unspecified | Multiple Organs Nos | Interstitial-Cell Tumor |
| | | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
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

| | | |
|---------------|------------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Pigmentation, Nos |
| Mammary gland | | Fibroadenoma |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Back | Cyst, Epidermal Inclusion |
| Stomach | | Acanthosis |
| | Submucosa | Edema, Nos |
| | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_788

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Small

Mesentery Nos

Necrosis, Fat

Kidney

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Nos

Lung

Inflammation, Chronic

Lymph node

Mesenteric Lymph Node

Hyperplasia, Reticulum Cell

Pancreas

Atrophy, Diffuse

Stomach

Hyperkeratosis

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma

Unspecified

Multiple Organs Nos

C-Cell Carcinoma
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_789

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 | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Leukocytosis, Nos |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| | Bronchiole | Papillary Adenocarcinoma |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Pancreas | Islets | Islet-Cell Adenoma |
| Spleen | | Congestion, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_790

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|---|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Hepatitis, Toxic Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Ectopia |
| 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: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_791

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Abscess, Nos |
| | | Inflammation, Chronic Diffuse |
| Skin | Neck | Basal-Cell Carcinoma |
| Spleen | | Hemosiderosis |
| Stomach | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_792

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------|-----------------------|-------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Acute Focal |
| | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
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

| | | |
|-------------------|------------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Leukocytosis, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Pancreas | Islets | Hyperplasia, Focal |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Back | Fibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_794

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|-------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Bone | Skull | Osteopetrosis |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Lymphoid |
| | Mandibular Lymph Node | Lymphangiectasis |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Chest | Keratoacanthoma |
| Spleen | | Fibrosis, Focal |
| | | Hemosiderosis |
| Stomach | | Acanthosis |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_795

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|---|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Hyperplasia, Alveolar Epithelium Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hemorrhage |
| | Mesenteric Lymph Node | Lymphangiectasis |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| | Axilla | Lipoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-------------|---------------------|--------------------------------|
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Pancreas | | Atrophy, Focal |
| | Acinus | Hyperplasia, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Groin | Fibroma |
| | Diaphragm Nos | Hernia, Nos |
| | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_797

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Liver

Lung

Mammary gland

Spleen

Testis

Thyroid

Retina

Myocardium Nos

Bile Duct

Pheochromocytoma

Degeneration, Nos

Inflammation, Chronic Focal

Inflammation, Chronic

Mineralization

Hyperplasia, Nos

Inflammation, Chronic

Papillary Adenocarcinoma

Hemosiderosis

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_798

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------|--|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Hyperplasia, Diffuse |
| Oral mucosa | Palate | Squamous Cell Papilloma |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Angiectasis |
| Prostate | | Hyperplasia, Focal |
| Stomach | | Inflammation, Chronic Diffuse Acanthosis Hyperkeratosis |
| Testis | | Inflammation, Chronic Focal Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Urinary bladder | | Hyperplasia, Epithelial |
| Zymbal gland | | Acanthosis Hyperkeratosis |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_799

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|-------------------------------|
| Bone marrow | | Hyperplasia, Nos |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Small | Ileum | Parasitism |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Preputial gland | | Cystic Ducts |
| | | Hyperkeratosis |
| Prostate | | Abscess, Nos |
| | | Inflammation, Acute Diffuse |
| Stomach | | Inflammation, Chronic Diffuse |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_800

TRT#: 3
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Esophagus | | Hyperkeratosis |
| Kidney | | Hyperplasia, Tubular Cell |
| | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | Bile Duct | Inflammation, Chronic |
| | | Metamorphosis, Fatty |
| Lung | | C-Cell Carcinoma, Metastatic |
| Lymph node | Mandibular Lymph Node | C-Cell Carcinoma, Metastatic |
| Parathyroid gland | | Hyperplasia, Nos |
| Stomach | | Hyperkeratosis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_801

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Prostate

Inflammation, Acute/Chronic

Stomach

Acanthosis

Testis

Hyperkeratosis

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Kidney

Liver

Lung

Lymph node

Pancreas

Skin

Testis

Unspecified

Tubule

Bile Duct

Mesenteric Lymph Node

Pancreatic Lymph Node

Axilla

Multiple Organs Nos

Pheochromocytoma

Inflammation, Chronic

Pigmentation, Nos

Hepatitis, Toxic

Hyperplasia, Nos

Inflammation, Chronic

Hyperplasia, Reticulum Cell

Pigmentation, Nos

Inflammation, Chronic Focal

Basal-Cell Tumor

Interstitial-Cell Tumor

Fibroma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_803

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney
Lung
Testis
Thyroid
Zymbal gland

Inflammation, Chronic
Inflammation, Chronic
Interstitial-Cell Tumor
Hyperplasia, C Cell
Carcinoma, Nos
Cystic Ducts

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-------------|---------------------|--------------------------------|
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Pancreas | | Atrophy, Focal |
| Spleen | | Necrosis, Focal |
| Stomach | Mucosa | Carcinoma In Situ, Nos |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_805

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Inflammation, Chronic

Liver

Hepatitis, Toxic

Testis

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: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_806

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Brain | Cerebrum | Carcinoma, Nos, Invasive |
| | Lateral Ventricle Nos | Dilatation, Nos |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Pancreas | Acinus | Hyperplasia, Focal |
| | Islets | Islet-Cell Adenoma |
| Pituitary gland | | Carcinoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Ulcer, Perforated |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_807

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Skin

Stomach

Testis

Unspecified

Back

Multiple Organs Nos

Inflammation, Chronic

Cyst, Epidermal Inclusion

Acanthosis

Hyperkeratosis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|---------------------|--|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Pituitary gland | | Angiectasis |
| Skin | Nose | Squamous Cell Papilloma |
| Stomach | | Acanthosis |
| Testis | | Degeneration, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma Follicular-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_809

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel
Heart
Kidney

Coronary Artery Nos
Myocardium Nos

Calcification, Focal
Inflammation, Chronic Focal
Inflammation, Chronic

Lung
Prostate
Stomach
Testis

Tubule

Pigmentation, Nos
Inflammation, Chronic
Inflammation, Chronic Focal
Leiomyosarcoma
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|---------------|------------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Epididymis | | Necrosis, Fat |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Angiectasis |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mediastinal Lymph Node | Lymphangiectasis |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| | | Cyst, Follicular Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_811

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Intestine Small | Mesentery Nos | Periarteritis |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|---------------------|--------------------------------------|
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Pituitary gland | | Adenoma, Nos |
| Seminal vesicle | | Cyst, Nos |
| Unspecified | Multiple Organs Nos | Lymphoma, Lymphocytic-Malignant Type |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_813

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Bone | Vertebra | Liposarcoma |
| Bone marrow | | Hypoplasia, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Colon | Inflammation, Acute Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic Liposarcoma, Metastatic |
| Pituitary gland | | Adenoma, Nos |
| Spleen | Follicles | Atrophy, Nos Hemosiderosis |
| Stomach | | Inflammation, Chronic Diffuse Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_814

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|----------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | | Metamorphosis, Fatty |
| | | Pigmentation, Nos |
| Lung | | Hyperplasia, Alveolar Epithelium |
| | | Inflammation, Chronic |
| Pancreas | | Acinar-Cell Adenoma |
| | Islets | Islet-Cell Adenoma |
| Preputial gland | | Cystic Ducts |
| Salivary gland | | Carcinoma, Nos |
| Skin | Groin | Keratoacanthoma |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_176

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|-------------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| Intestine Small | Duodenum | Mucinous Cystadenocarcinoma |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Pancreatic Lymph Node | Hyperplasia, Lymphoid |
| Seminal vesicle | | Cyst, Nos |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_177

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Intestine Small
Lung
Testis
Unspecified

Cortex Nos
Descending, Colon
Duodenum

Multiple Organs Nos

Metamorphosis, Fatty
Adenomatous Polyp, Nos
Adenocarcinoma, Nos
Inflammation, Chronic
Degeneration, Nos
Adenocarcinoma, Nos, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_178

TRT#: 4

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, Multifocal |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Cystic |
| | | Focal Cellular Change |
| | | Necrosis, Focal |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Pancreas | | Ectopia |
| Preputial gland | | Carcinoma, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_179

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------|-------------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Prostate | | Inflammation, Chronic Focal |
| Skin | | Keratoacanthoma |
| Testis | | Degeneration, Nos |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_180

TRT#: 4

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 | Inflammation, Chronic Diffuse |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatocellular Carcinoma |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Neoplastic Nodule |
| Lung | | Hepatocellular Carcinoma, Metastatic |
| | | Inflammation, Chronic |
| Mammary gland | | Cystic Ducts |
| Testis | | Interstitial-Cell Tumor |
| | | Periarteritis |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Flank | Cyst, Hemorrhagic |
| | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_181

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Large

Ascending Colon, Colon

Adenocarcinoma, Nos

Liver

Necrosis, Focal

Unspecified

Multiple Organs Nos

Adenocarcinoma, Nos, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_182

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Lymph node

Mandibular Lymph Node

Hyperplasia, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_183

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney
Liver

Myocardium Nos
Descending, Colon

Pheochromocytoma
Inflammation, Chronic Diffuse
Adenomatous Polyp, Nos
Inflammation, Chronic
Focal Cellular Change
Hepatitis, Toxic
Hemorrhage
Hemorrhage
Necrosis, Focal
Interstitial-Cell Tumor
Leukemia, Monocytic

Lung
Spleen

Testis
Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_184

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|------------|------------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Testis | | Degeneration, Nos |
| | | Hyperplasia, Interstitial Cell |
| Thyroid | | Interstitial-Cell Tumor |
| | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_185

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|-----------------------|-------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_186

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Kidney | | Inflammation, Chronic |
| Liver | | Fibrosis, Focal |
| | | Focal Cellular Change |
| | | Hemangiosarcoma |
| | | Hemorrhage |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Necrosis, Nos |
| | | Neoplastic Nodule |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Fibroadenoma |
| Pituitary gland | | Cyst, Nos |
| Skin | Tail | Cyst, Epidermal Inclusion |
| | Tail | Hyperkeratosis |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_187

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|-----------------------------------|
| Adrenal gland | | Pigmentation, Nos |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Intestine Large | Ascending Colon, Colon | Signet Ring Carcinoma |
| Kidney | Tubule | Pigmentation, Nos |
| Liver | | Degeneration, Nos |
| | | Focal Cellular Change |
| | | Granuloma, Nos |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Alveolar/Bronchiolar Carcinoma |
| Lymph node | Mediastinal Lymph Node | Lymphangiectasis |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| | Mesenteric Lymph Node | Signet Ring Carcinoma, Metastatic |
| Pancreas | Islets | Islet-Cell Carcinoma |
| Preputial gland | | Carcinoma, Nos |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic |
| | Multiple Organs Nos | Signet Ring Carcinoma, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_188

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------|--------------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Signet Ring Carcinoma |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | Bile Duct | Inflammation, Chronic |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Pancreas | | Atrophy, Diffuse |
| Pharynx | | Abscess, Nos |
| Skin | Tail | Acanthosis |
| Stomach | | Edema, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Carcinoma |
| Unspecified | Head | Abscess, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_189

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Transverse Colon, Colon | Adenomatous Polyp, Nos |
| Intestine Small | Duodenum | Adenocarcinoma, Nos |
| Kidney | Tubule | Inflammation, Chronic Pigmentation, Nos |
| Liver | Bile Duct | Hepatocytomegaly Hyperplasia, Nos |
| Lung | Renal Lymph Node | Inflammation, Chronic Pigmentation, Nos |
| Lymph node | | Interstitial-Cell Tumor |
| Testis | | C-Cell Carcinoma |
| Thyroid | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_190

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|-------------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Cecum, Colon | Inflammation, Chronic Focal |
| | Cecum, Colon | Necrosis, Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_191

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Intestine Small
Lung
Prostate
Spleen
Stomach

Cortex Nos
Descending, Colon
Jejunum

Follicles

Metamorphosis, Fatty
Adenomatous Polyp, Nos
Mucinous Cystadenocarcinoma, Metastatic
Inflammation, Chronic
Abscess, Nos
Atrophy, Nos
Abscess, Nos
Acanthosis
Hyperkeratosis
Mucinous Cystadenocarcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_192

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------|-----------------------------|
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | Bile Duct | Fibrosis |
| | | Focal Cellular Change |
| | | Granuloma, Nos |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Pancreas | | Acinar-Cell Adenoma |
| | | Ectopia |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| | | Follicular-Cell Adenoma |
| Zymbal gland | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_193

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------|--------------------------------|
| Heart | Myocardium Nos | Degeneration, Nos |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Intestine Small | Duodenum | Adenocarcinoma, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_194

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Epididymis

Intestine Large

Intestine Small

Kidney

Liver

Lung

Prostate

Testis

Transverse Colon, Colon

Duodenum

Necrosis, Fat

Adenocarcinoma In Adenomatous Polyp

Mucinous Cystadenocarcinoma

Inflammation, Chronic

Focal Cellular Change

Metamorphosis, Fatty

Inflammation, Chronic

Inflammation, Chronic Focal

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_195

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|---------------------|-------------------------|
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Spleen | | Hematopoiesis |
| Testis | Tunica Vaginalis | Mesothelioma, Malignant |
| Unspecified | Multiple Organs Nos | Mesothelioma, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_196

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Small
Kidney
Lung
Lymph node
Prostate
Stomach
Testis

Medulla
Myocardium Nos
Jejunum

Mediastinal Lymph Node
Coagulating Gland

Hyperplasia, Focal
Inflammation, Chronic Focal
Mucinous Cystadenocarcinoma
Inflammation, Chronic
Inflammation, Chronic
Hyperplasia, Lymphoid
Adenoma, Nos
Acanthosis
Degeneration, Nos
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Hyperplasia, C Cell
Steatitis

Thyroid
Unspecified

Abdominal Cavity

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Metamorphosis, Fatty

Neoplastic Nodule

Testis

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Kidney

Transverse Colon, Colon

Adenomatous Polyp, Nos

Lung

Inflammation, Chronic

Testis

Inflammation, Chronic

Thyroid

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_199

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Intestine Small

Kidney

Liver

Lung

Lymph node

Pituitary gland

Testis

Unspecified

Myocardium Nos

Duodenum

Mandibular Lymph Node

Mediastinal Lymph Node

Mediastinal Lymph Node

Multiple Organs Nos

Pheochromocytoma

Inflammation, Chronic Diffuse

Mucinous Cystadenocarcinoma

Inflammation, Chronic

Neoplastic Nodule

Inflammation, Chronic

Hyperplasia, Lymphoid

Hyperplasia, Lymphoid

Pigmentation, Nos

Cyst, Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_200

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Large

Ascending Colon, Colon

Mucinous Cystadenocarcinoma

Lung

Inflammation, Chronic

Lymph node

Mesenteric Lymph Node

Mucinous Cystadenocarcinoma, Metastatic

Stomach

Acanthosis

Hyperkeratosis

Testis

Degeneration, Nos

Zymbal gland

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_201

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|----------------|-----------------------|--------------------------------|
| Esophagus | | Hyperkeratosis |
| Kidney | | Inflammation, Chronic |
| Liver | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mandibular Lymph Node | Lymphangiectasis |
| Prostate | | Inflammation, Chronic Focal |
| Salivary gland | | Atrophy, Nos |
| Stomach | | Acanthosis |
| Testis | | Hyperplasia, Interstitial Cell |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_202

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Mucinous Cystadenocarcinoma

Transverse Colon, Colon

Mucinous Cystadenocarcinoma

Kidney

Nephrosis, Hydro

Unspecified

Multiple Organs Nos

Mucinous Cystadenocarcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|-----------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| | | Mixed Tumor, Malignant |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lymph node | Pancreatic Lymph Node | Pigmentation, Nos |
| Pancreas | | Inflammation, Chronic Focal |
| Pituitary gland | | Adenoma, Nos |
| Spleen | | Hematopoiesis |
| Testis | | Interstitial-Cell Tumor |
| Zymbal gland | | Hyperkeratosis |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_204

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|-------------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Ascending Colon, Colon | Cyst, Nos |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Necrosis, Focal |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Fibroadenoma |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Flank | Acanthosis |
| | Back | Cyst, Epidermal Inclusion |
| | Flank | Hyperkeratosis |
| | Back | Keratoacanthoma |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| 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: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_205

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Hyperplasia, Focal |
| | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| | Cecum, Colon | Parasitism |
| | Descending, Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | | Hepatocellular Carcinoma |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Stomach | | Hyperkeratosis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|-----------------------|--------------------------------|
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Preputial gland | | Hyperplasia, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_207

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|------------------------|---|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Kidney | Tubule | Inflammation, Chronic Pigmentation, Nos |
| Liver | Bile Duct Bile Duct | Hepatitis, Toxic Hyperplasia, Nos Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Pancreatic Lymph Node | Hyperplasia, Reticulum Cell |
| Prostate | | Inflammation, Chronic Focal |
| 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: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Intestine Large
Kidney

Cecum, Colon

Signet Ring Carcinoma
Inflammation, Chronic

Liver

Tubule
Bile Duct

Pigmentation, Nos
Inflammation, Chronic
Metamorphosis, Fatty

Lung
Lymph node
Prostate

Mandibular Lymph Node

Inflammation, Chronic
Hyperplasia, Lymphoid
Inflammation, Chronic Focal
Hematopoiesis
Degeneration, Nos
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

Spleen
Testis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|-------------------------|-------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Transverse Colon, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|-----------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Cystic |
| | | Focal Cellular Change |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Preputial gland | | Carcinoma, Nos |
| Testis | | Degeneration, Nos |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_211

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|------------------------|---------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Capsule | Inflammation, Chronic Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mediastinal Lymph Node | Hyperplasia, Lymphoid |
| | Pancreatic Lymph Node | Hyperplasia, Lymphoid |
| Pancreas | | Atrophy, Focal |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Adenocarcinoma, Nos, Metastatic |
| | | Hemangiopericytoma, Malignant |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Cyst, Follicular Nos |
| | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_212

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|-------------------------|-------------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Zymbal gland | | Hyperkeratosis |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_213

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large

Medulla
Myocardium Nos
Descending, Colon
Ascending Colon, Colon

Kidney

Tubule

Liver
Lung
Prostate
Testis

Hyperplasia, Focal
Inflammation, Chronic Focal
Adenocarcinoma In Adenomatous Polyp
Mucinous Cystadenocarcinoma
Inflammation, Chronic
Pigmentation, Nos
Focal Cellular Change
Inflammation, Chronic
Inflammation, Chronic Focal
Degeneration, Nos
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Kidney

Liver

Lung

Prostate

Spleen

Sarcoma, Nos

Necrosis, Focal

Inflammation, Chronic

Inflammation, Chronic Focal

Hematopoiesis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|------------------------|---|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Ascending Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| Intestine Small | Mesentery Nos | Adenocarcinoma In Adenomatous Polyp, Metastatic |
| Kidney | | Inflammation, Chronic |
| Liver | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Testis | | Degeneration, Nos |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| | Tunica Vaginalis | Mesothelioma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_216

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenocarcinoma In Adenomatous Polyp

Kidney

Ascending Colon, Colon

Mucinous Cystadenocarcinoma

Lung

Inflammation, Chronic

Testis

Inflammation, Chronic

Thyroid

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_217

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|-------------------------------------|
| Intestine Large | Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hyperplasia, Lymphoid |
| | Mediastinal Lymph Node | Lymphangiectasis |
| Pancreas | | Atrophy, Focal |
| Spleen | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Abscess, Nos |
| | | Cystic Ducts |
| | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|--------------|----------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Degeneration, Nos |
| | | Focal Cellular Change |
| | Bile Duct | Inflammation, Chronic |
| | | Leukemia, Monocytic |
| Lung | | Inflammation, Chronic |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| Testis | | Degeneration, Nos |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| | | Periarteritis |
| Unspecified | Back | Fibroma |
| Zymbal gland | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
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 Focal |
| Intestine Large | Cecum, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Cystic |
| | Bile Duct | Focal Cellular Change |
| | | Hyperplasia, Nos |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Ileocolic Lymph Node | Lymphangiectasis |
| | Mesenteric Lymph Node | Lymphangiectasis |
| Pancreas | | Atrophy, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|---------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Degeneration, Nos |
| | | Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Cystic Ducts |
| Pancreas | | Inflammation, Chronic Focal |
| Stomach | | Acanthosis |
| | | Inflammation, Chronic Focal |
| 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: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|-------------------|--------------------------------|
| Heart | Myocardium Nos | Fibrosis, Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|---------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos |
| | | Hemorrhage |
| | Bile Duct | Hyperplasia, Nos |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Pancreas | | Atrophy, Focal |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Neck | Sarcoma, Nos |
| | Multiple Organs Nos | Sarcoma, Nos, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|--------------|----------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|-------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Cystic Ducts |
| | | Inflammation, Chronic |
| | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_225

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Cecum, Colon | Adenomatous Polyp, Nos |
| Intestine Small | Duodenum | Adenocarcinoma, Nos |
| | Mesentery Nos | Adenocarcinoma, Nos, Invasive |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pituitary gland | | Hyperplasia, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Cyst, Follicular Nos |
| | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Intestine Large

Cecum, Colon

Mucinous Cystadenocarcinoma

Kidney

Inflammation, Chronic

Pituitary gland

Adenoma, Nos

Stomach

Acanthosis

Testis

Inflammation, Chronic

Unspecified

Multiple Organs Nos

Hyperplasia, Interstitial Cell

Mucinous Cystadenocarcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Adrenal gland
Harderian gland
Kidney
Lung
Lymph node
Prostate
Spleen
Zymbal gland

Cortex Nos
Hardarian Gland

Cervical Lymph Node Nos

Metamorphosis, Fatty
Carcinoma, Nos
Inflammation, Chronic
Carcinoma, Nos, Metastatic
Carcinoma, Nos, Metastatic
Inflammation, Chronic Focal
Hematopoiesis
Squamous Cell Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|-------------------------|-------------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic |
| Intestine Large | Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatocellular Carcinoma |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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 | Degeneration, Nos |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Descending, Colon | Adenomatous Polyp, Nos |
| Intestine Small | Duodenum | Mucinous Cystadenocarcinoma |
| Kidney | | Granuloma, Nos |
| | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Adenoma |
| Unspecified | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Inflammation, Chronic

Lung

Inflammation, Chronic

Prostate

Inflammation, Chronic Focal

Testis

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_231

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------|--|
| Adrenal gland | | Pheochromocytoma Pheochromocytoma, Malignant |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change Granuloma, Nos Hemorrhage |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Lumbar Lymph Node | Pheochromocytoma, Metastatic |
| Mammary gland | | Cystic Ducts |
| Prostate | | Inflammation, Chronic Focal |
| Seminal vesicle | | Cyst, Nos |
| Skin | Back | Cyst, Epidermal Inclusion |
| Testis | | Degeneration, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Head | Abscess, Nos |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_232

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|----------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Pancreas | | Atrophy, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| Unspecified | Neck | Interstitial-Cell Tumor |
| | | Hemangiosarcoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_233

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Zymbal gland

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_234

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-------------------------------------|
| Adrenal gland | | Pheochromocytoma |
| Ear | Canal | Acanthosis |
| | Canal | Inflammation, Chronic Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| Kidney | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Pancreas | | Acinar-Cell Adenoma |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_235

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Angiectasis |
| | | Degeneration, Nos |
| | | Granuloma, Nos |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Ileocolic Lymph Node | Hyperplasia, Lymphoid |
| | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Renal Lymph Node | Hyperplasia, Reticulum Cell |
| | Ileocolic Lymph Node | Lymphangiectasis |
| | Renal Lymph Node | Pigmentation, Nos |
| Mammary gland | | Fibroadenoma |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Skin | | Cyst, Epidermal Inclusion |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Flank | Fibroma |
| | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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 | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Mesothelioma, Metastatic |
| Testis | | Hyperplasia, Interstitial Cell |
| | Tunica Vaginalis | Mesothelioma, Malignant |
| Unspecified | Multiple Organs Nos | Mesothelioma, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Adrenal gland
Intestine Large
Kidney
Liver
Lung

Cortex Nos
Cecum, Colon

Metamorphosis, Fatty
Adenocarcinoma, Nos
Inflammation, Chronic
Hepatitis, Toxic
Inflammation, Acute Focal
Necrosis, Focal

Lymph node
Prostate
Stomach
Testis

Pancreatic Lymph Node

Necrosis, Focal
Inflammation, Chronic Focal
Cyst, Nos
Hyperplasia, Interstitial Cell

Thyroid
Unspecified

Multiple Organs Nos
Mediastinum Nos

Interstitial-Cell Tumor
Hyperplasia, C Cell
Leukemia, Monocytic
Necrosis, Focal
Cystic Ducts

Zymbal gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_238

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Esophagus

Heart

Intestine Small

Lung

Lymph node

Prostate

Myocardium Nos

Jejunum

Ileum, Ileum

Mesenteric Lymph Node

Hyperkeratosis

Degeneration, Nos

Mucinous Cystadenocarcinoma

Necrosis, Focal

Inflammation, Chronic

Hyperplasia, Lymphoid

Inflammation, Chronic Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|-------------------|-------------------------------------|
| Heart | Myocardium Nos | Degeneration, Nos |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_240

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Testis

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

| ANIMAL ID: 4_241 | TRT#: 4 DOSE: 10000 PPM | SEX: Male DISP: Moribund Sacrifice | DAY ON TEST: HISTO: |
|------------------------|--|---|------------------------|
| OBSERVATIONS | | | |
| Adrenal gland | Medulla | Hyperplasia, Focal | |
| Bone marrow | | Hyperplasia, Nos | |
| Heart | Cardiac Valve | Inflammation, Chronic Focal Inflammation, Chronic Focal | |
| Intestine Large | Descending, Colon Transverse Colon, Colon Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp Adenocarcinoma In Adenomatous Polyp Hyperplasia, Epithelial | |
| Kidney | Tubule | Inflammation, Chronic Pigmentation, Nos | |
| Liver | Bile Duct Bile Duct | Focal Cellular Change Hyperplasia, Nos Inflammation, Chronic Neoplastic Nodule Sarcoma, Nos | |
| Lung | | Inflammation, Chronic | |
| Lymph node | Mesenteric Lymph Node Pancreatic Lymph Node Mesenteric Lymph Node Pancreatic Lymph Node | Hyperplasia, Reticulum Cell Hyperplasia, Reticulum Cell Lymphangiectasis Lymphangiectasis | |
| Penis | Prepuce Nos | Cyst, Epidermal Inclusion | |
| Spleen | | Hematopoiesis | |
| Stomach | | Acanthosis | |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor | |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_242

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Stomach

Adenocarcinoma, Nos

Unspecified

Multiple Organs Nos

Adenocarcinoma, Nos, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Epididymis

Intestine Large

Kidney

Lung

Testis

Ascending Colon, Colon

Descending, Colon

Tubule

Scrotum Nos

Tunica Vaginalis

Zymbal gland

Pheochromocytoma

Mesothelioma, Invasive

Adenocarcinoma, Nos

Adenomatous Polyp, Nos

Hyperplasia, Focal

Inflammation, Chronic

Inflammation, Chronic

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Mesothelioma, Invasive

Mesothelioma, Malignant

Squamous Cell Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Intestine Large

Descending, Colon

Adenocarcinoma In Adenomatous Polyp

Cecum, Colon

Hemorrhage

Ascending Colon, Colon

Mucinous Cystadenocarcinoma

Kidney

Inflammation, Chronic

Unspecified

Multiple Organs Nos

Mucinous Cystadenocarcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Adrenal gland
Heart
Intestine Large
Kidney
Liver

Cortex Nos
Myocardium Nos
Transverse Colon, Colon

Metamorphosis, Fatty
Inflammation, Chronic Focal
Adenocarcinoma In Adenomatous Polyp
Inflammation, Chronic
Focal Cellular Change
Metamorphosis, Fatty
Inflammation, Chronic
Atrophy, Focal
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Hyperplasia, C Cell

Lung
Pancreas
Testis

Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_246

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|-------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Ascending Colon, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Lymphangiectasis |
| Testis | | Degeneration, Nos |
| | | Interstitial-Cell Tumor |
| Thyroid | | Cyst, Follicular Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_247

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Ascending Colon, Colon

Mucinous Cystadenocarcinoma

Kidney

Inflammation, Chronic

Liver

Necrosis, Focal

Lung

Inflammation, Chronic

Lymph node

Celiac Lymph Node

Mucinous Cystadenocarcinoma, Metastatic

Stomach

Acanthosis

Hyperkeratosis

Inflammation, Chronic

Necrosis, Focal

Testis

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_248

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Intestine Large

Kidney

Liver

Lung

Lymph node

Pancreas

Testis

Myocardium Nos

Ascending Colon, Colon

Transverse Colon, Colon

Tubule

Mandibular Lymph Node

Mesenteric Lymph Node

Ileocolic Lymph Node

Pheochromocytoma

Inflammation, Chronic Focal

Adenomatous Polyp, Nos

Adenomatous Polyp, Nos

Inflammation, Chronic

Pigmentation, Nos

Angiectasis

Focal Cellular Change

Neoplastic Nodule

Alveolar/Bronchiolar Carcinoma

Inflammation, Chronic

Hyperplasia, Lymphoid

Hyperplasia, Reticulum Cell

Lymphangiectasis

Atrophy, Diffuse

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_249

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Small | Duodenum | Adenocarcinoma, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Hepatitis, Toxic |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Lymphangiectasis |
| Mammary gland | | Fibroadenoma |
| Skin | Neck | Basal-Cell Carcinoma |
| Spleen | | Fibrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Cyst, Follicular Nos |
| | | Follicular-Cell Adenoma |
| | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_250

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|------------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Cyst, Nos |
| | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Parathyroid gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Diffuse |
| Seminal vesicle | | Cyst, Nos |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Adenoma |
| Zymbal gland | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Testis

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:26
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_252

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|---------------------|-----------------------------|
| Adrenal gland | | Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Degeneration, Nos |
| | Bile Duct | Focal Cellular Change |
| | | Hyperplasia, Nos |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| | | Metaplasia, Osseous |
| Pancreas | | Acinar-Cell Adenoma |
| | Islets | Islet-Cell Carcinoma |
| Spleen | | Hematopoiesis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| 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: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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 Focal |
| Intestine Large | Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Transverse Colon, Colon
Descending, Colon

Adenocarcinoma, Nos
Adenomatous Polyp, Nos

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Lung

Neoplastic Nodule

Testis

Inflammation, Chronic

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_255

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|---|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| Intestine Small | Jejunum | Mucinous Cystadenocarcinoma |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Thyroid | | Follicular-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Mucinous Cystadenocarcinoma, Metastatic |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_256

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos |
| | Bile Duct | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | | Inflammation, Chronic |
| | | Necrosis, Focal |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Pituitary gland | | Hyperplasia, Focal |
| Skin | Ear | Fibrosarcoma |
| Stomach | | Acanthosis |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Intestine Large

Descending, Colon

Adenocarcinoma In Adenomatous Polyp

Kidney

Inflammation, Chronic

Lung

Inflammation, Acute Focal

Testis

Inflammation, Chronic

Zymbal gland

Hyperplasia, Interstitial Cell

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_258

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------|-------------------------------------|
| Heart | Myocardium Nos | Degeneration, Nos |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Transverse Colon, Colon

Adenomatous Polyp, Nos

Kidney

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Nos

Lung

Inflammation, Chronic

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Lung

Inflammation, Chronic

Testis

Degeneration, Nos

Zymbal gland

Hyperplasia, Interstitial Cell

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|------------------------|--------------------------------|
| Epididymis | | Necrosis, Fat |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| Liver | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mandibular Lymph Node | Lymphangiectasis |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Cystic Follicles |
| | | Follicular-Cell Adenoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Pancreas | | Atrophy, Focal |
| Pituitary gland | | Adenoma, Nos |
| Preputial gland | | Carcinoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Hematopoiesis |
| Testis | | Hyperplasia, Interstitial Cell |
| Thyroid | | Interstitial-Cell Tumor |
| | | Follicular-Cell Adenoma |
| | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

Kidney

Liver

Lung

Prostate

Testis

Thyroid

Inflammation, Chronic

Granuloma, Nos

Metamorphosis, Fatty

Necrosis, Focal

Inflammation, Chronic

Inflammation, Chronic Focal

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_264

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| | Cardiac Valve | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| Liver | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Pituitary gland | | Adenoma, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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 | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Inflammation, Chronic Diffuse |
| | Ascending Colon, Colon | Mucinous Cystadenocarcinoma |
| | Colon | Necrosis, Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Leukemia, Monocytic |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hemorrhage |
| | Mesenteric Lymph Node | Pigmentation, Nos |
| Pancreas | | Ectopia |
| Spleen | | Fibrosis, Diffuse |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| | | Ulcer, Perforated |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Carcinoma |
| Unspecified | Flank | Fibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_266

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Ascending Colon, Colon

Adenocarcinoma In Adenomatous Polyp

Descending, Colon

Adenomatous Polyp, Nos

Transverse Colon, Colon

Adenomatous Polyp, Nos

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Skin

Acanthosis

Testis

Hyperkeratosis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_267

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Celiac Lymph Node | Hyperplasia, Lymphoid |
| | Celiac Lymph Node | Lymphangiectasis |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Skin | | Abscess, Nos |
| | | Inflammation, Chronic Focal |
| Testis | | Degeneration, Nos |
| | | Hyperplasia, Interstitial Cell |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_268

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Liver

Lung

Lymph node

Testis

Thyroid

Unspecified

Retina

Myocardium Nos

Bile Duct

Bile Duct

Mediastinal Lymph Node

Multiple Organs Nos

Pheochromocytoma

Cataract

Degeneration, Nos

Inflammation, Chronic Focal

Inflammation, Chronic

Degeneration, Nos

Focal Cellular Change

Hyperplasia, Nos

Inflammation, Chronic

Metamorphosis, Fatty

Inflammation, Chronic

Hyperplasia, Lymphoid

Interstitial-Cell Tumor

C-Cell Adenoma

Hyperplasia, C Cell

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

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

| | | |
|-----------------|--|---|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Intestine Large | Descending, Colon Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Testis | | Hyperplasia, Interstitial Cell |
| Unspecified | Multiple Organs Nos | Interstitial-Cell Tumor |
| Zymbal gland | | Leukemia, Monocytic Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:26

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_270

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large
Kidney
Liver
Lung
Testis

Descending, Colon

Adenomatous Polyp, Nos
Inflammation, Chronic
Necrosis, Focal
Inflammation, Chronic
Degeneration, Nos
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Carcinoma, Nos

Zymbal gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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
Intestine Small
Kidney
Liver

Medulla
Myocardium Nos
Peyers Patch

Hyperplasia, Focal
Inflammation, Chronic Diffuse
Hyperplasia, Lymphoid
Inflammation, Chronic
Angiectasis
Hepatitis, Toxic
Hyperplasia, Nos
Inflammation, Chronic
Interstitial-Cell Tumor
Cyst, Follicular Nos
Leukemia, Monocytic

Bile Duct
Bile Duct

Testis
Thyroid
Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_272

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Lymph node

Cervical Lymph Node Nos

Hyperplasia, Lymphoid

Zymbal gland

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|-------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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 | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Testis | | Degeneration, Nos |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Head | Neurofibroma |
| Zymbal gland | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_275

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Kidney
Lung
Lymph node
Testis

Cecum, Colon

Celiac Lymph Node

Metamorphosis, Fatty
Adenocarcinoma, Nos
Inflammation, Chronic
Inflammation, Chronic
Adenocarcinoma, Nos, Metastatic
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Carcinoma, Nos

Zymbal gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|-------------------------|-------------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Ascending Colon, Colon | Adenocarcinoma, Nos |
| | Transverse Colon, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Testis | | Degeneration, Nos |
| | | Hyperplasia, Interstitial Cell |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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 | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Intestine Large | Transverse Colon, Colon Transverse Colon, Colon Colon | Adenocarcinoma In Adenomatous Polyp Adenomatous Polyp, Nos Carcinoma In Situ, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Focal Cellular Change Inflammation, Chronic Neoplastic Nodule |
| Lung | | Hyperplasia, Alveolar Epithelium Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|-------------------|--------------------------------|
| Heart | Myocardium Nos | Fibrosis, Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| | Cecum, Colon | Signet Ring Carcinoma |
| Kidney | | Inflammation, Chronic |
| Liver | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Skin | Back | Cyst, Epidermal Inclusion |
| Stomach | | Cyst, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| Unspecified | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|-------------------|-------------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Skin | Back | Cyst, Epidermal Inclusion |
| Testis | | Hyperplasia, Interstitial Cell |
| Thyroid | | Hyperplasia, C Cell |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_280

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|-------------------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Eye | Retina | Degeneration, Nos |
| Intestine Large | Ascending Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Transverse Colon, Colon | Adenomatous Polyp, Nos |
| | Colon | Hyperplasia, Epithelial |
| Kidney | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | | Necrosis, Focal |
| | | Sarcoma, Nos |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mandibular Lymph Node | Lymphangiectasis |
| Mammary gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| Skin | Head | Abscess, Nos |
| | Back | Cyst, Epidermal Inclusion |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_281

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|--|--|
| Adrenal gland | Medulla Cortex Nos | Hyperplasia, Focal Metamorphosis, Fatty Pheochromocytoma |
| Eye | Retina | Degeneration, Nos |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Nos Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node Pancreatic Lymph Node Mesenteric Lymph Node Pancreatic Lymph Node | Hyperplasia, Lymphoid Hyperplasia, Lymphoid Hyperplasia, Reticulum Cell Pigmentation, Nos |
| Pancreas | | Atrophy, Focal |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_282

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| | Colon | Parasitism |
| Intestine Small | Duodenum | Adenocarcinoma, Nos |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | | Granuloma, Nos |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Skin | Flank | Keratoacanthoma |
| Spleen | | Hematopoiesis |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Adenocarcinoma, Nos, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|-------------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Transverse Colon, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Spleen | | Hematopoiesis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Back | Squamous Cell Carcinoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_284

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Colon

Mucinous Cystadenocarcinoma

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Lung

Inflammation, Chronic

Lymph node

Mediastinal Lymph Node

Hemorrhage

Spleen

Hematopoiesis

Testis

Degeneration, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Zymbal gland

Mucinous Cystadenocarcinoma, Metastatic

Squamous Cell Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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 | Inflammation, Chronic Focal |
| Intestine Large | Transverse Colon, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Lymphoid |
| | Pancreatic Lymph Node | Hyperplasia, Reticulum Cell |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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 | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| Intestine Small | Mesentery Nos | Mesothelioma, Metastatic |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Skin | Back | Keratoacanthoma |
| Spleen | | Mesothelioma, Metastatic |
| Testis | | Degeneration, Nos |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Tunica Vaginalis | Mesothelioma, Malignant |
| | Diaphragm Nos | Hernia, Nos |
| | Multiple Organs Nos | Mesothelioma, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Intestine Large

Transverse Colon, Colon

Adenocarcinoma In Adenomatous Polyp

Transverse Colon, Colon

Adenomatous Polyp, Nos

Ascending Colon, Colon

Carcinoma In Situ, Nos

Colon

Parasitism

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Lung

Metamorphosis, Fatty

Pancreas

Inflammation, Chronic

Testis

Hyperplasia, Focal

Thyroid

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Adrenal gland
Heart
Intestine Large
Kidney
Pancreas
Pituitary gland
Prostate
Spleen
Stomach
Testis

Cortex Nos
Myocardium Nos
Transverse Colon, Colon

Islets

Multiple Organs Nos

Metamorphosis, Fatty
Inflammation, Chronic Focal
Adenomatous Polyp, Nos
Inflammation, Chronic
Islet-Cell Adenoma
Hyperplasia, Focal
Inflammation, Chronic Focal
Hematopoiesis
Necrosis, Focal
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Lymphoma, Histiocytic-Malignant Type
Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_289

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney
Liver

Lung
Pancreas
Prostate
Testis

Cortex Nos
Myocardium Nos
Transverse Colon, Colon

Hyperplasia, Focal
Inflammation, Chronic Focal
Adenocarcinoma In Adenomatous Polyp
Inflammation, Chronic
Focal Cellular Change
Metamorphosis, Fatty
Inflammation, Chronic
Atrophy, Focal
Inflammation, Chronic Focal
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_290

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Epididymis

Intestine Small

Liver

Duodenum

Testis

Unspecified

Multiple Organs Nos

Granuloma, Spermatic

Adenocarcinoma, Nos

Necrosis, Focal

Thrombosis, Nos

Degeneration, Nos

Adenocarcinoma, Nos, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_291

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------|------------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Fibrosis |
| | | Focal Cellular Change |
| | | Hepatitis, Toxic |
| | | Hepatocellular Carcinoma |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Lymphangiectasis |
| | Mediastinal Lymph Node | Lymphangiectasis |
| Pancreas | | Atrophy, Focal |
| Skin | Back | Cyst, Epidermal Inclusion |
| Stomach | | Edema, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Back | Fibrosarcoma |
| | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_292

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Small
Kidney
Lung
Prostate
Testis

Duodenum

Adenocarcinoma, Nos
Inflammation, Chronic
Inflammation, Chronic
Inflammation, Chronic Focal
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Adenocarcinoma, Nos, Metastatic

Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Adrenal gland
Heart
Intestine Large
Kidney
Liver

Lung
Lymph node
Prostate
Testis

Thyroid
Zymbal gland

Medulla
Myocardium Nos
Ascending Colon, Colon

Mandibular Lymph Node

Hyperplasia, Focal
Fibrosis, Multifocal
Adenomatous Polyp, Nos
Inflammation, Chronic
Angiectasis
Focal Cellular Change
Inflammation, Chronic
Hyperplasia, Lymphoid
Inflammation, Chronic Focal
Degeneration, Nos
Interstitial-Cell Tumor
Hyperplasia, C Cell
Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Ascending Colon, Colon

Mucinous Cystadenocarcinoma

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Lymph node

Ileocolic Lymph Node

Mucinous Cystadenocarcinoma, Metastatic

Mesenteric Lymph Node

Mucinous Cystadenocarcinoma, Metastatic

Testis

Hyperplasia, Interstitial Cell

Zymbal gland

Keratoacanthoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_295

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Heart

Myocardium Nos

Inflammation, Chronic Focal

Kidney

Inflammation, Chronic

Lung

Alveolar/Bronchiolar Adenoma

Inflammation, Chronic

Lymph node

Mandibular Lymph Node

Hyperplasia, Lymphoid

Prostate

Inflammation, Chronic Focal

Testis

Hyperplasia, Interstitial Cell

Zymbal gland

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|--------------|-------------------------|--------------------------|
| Ear | Canal | Acanthosis |
| | Canal | Hyperkeratosis |
| | Canal | Squamous Cell Papilloma |
| Eye | Cornea | Inflammation, Chronic |
| | Cornea | Necrosis, Focal |
| Lung | | Fibrosarcoma, Metastatic |
| Lymph node | Cervical Lymph Node Nos | Hyperplasia, Lymphoid |
| Nasal cavity | Turbinates Nos | Inflammation, Chronic |
| Skin | | Fibrosarcoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Testis

Degeneration, Nos

Zymbal gland

Hyperplasia, Interstitial Cell

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_298

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Kidney
Liver
Lung
Lymph node
Testis

Unspecified
Zymbal gland

Cortex Nos
Ascending Colon, Colon

Bile Duct

Mesenteric Lymph Node

Abdominal Cavity

Metamorphosis, Fatty
Signet Ring Carcinoma
Inflammation, Chronic
Hyperplasia, Nos
Inflammation, Chronic
Signet Ring Carcinoma, Metastatic
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Necrosis, Fat
Keratoacanthoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_299

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|-------------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Transverse Colon, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|--------------|--|--|
| Heart | Myocardium Nos Cardiac Valve | Inflammation, Chronic Diffuse Inflammation, Chronic Focal |
| Kidney | | Fibrosis, Diffuse Inflammation, Chronic |
| Liver | Tubule Bile Duct | Pigmentation, Nos Degeneration, Nos Focal Cellular Change Hyperplasia, Nos Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node Mesenteric Lymph Node | Hyperplasia, Lymphoid Pigmentation, Nos |
| Pancreas | Islets | Islet-Cell Adenoma |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_301

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|---------------------|-----------------------------|
| Esophagus | | Hyperkeratosis |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Degeneration, Nos |
| | | Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Pancreas | | Islet-Cell Carcinoma |
| Prostate | Islets | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Kidney

Inflammation, Chronic

Liver

Hepatitis, Toxic

Seminal vesicle

Cyst, Nos

Stomach

Acanthosis

Thyroid

Necrosis, Focal

Unspecified

Multiple Organs Nos

C-Cell Adenoma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_303

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|-------------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | Tubule | Cyst, Nos |
| | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Granuloma, Nos |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Metamorphosis, Fatty |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Ileocolic Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Spleen | | Fibrosis, Focal |
| Stomach | | Inflammation, Chronic Diffuse |
| Testis | | Degeneration, Nos |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Esophagus

Kidney

Liver

Lung

Spleen

Testis

Unspecified

Tubule

Bile Duct

Hyperkeratosis

Inflammation, Chronic

Pigmentation, Nos

Granuloma, Nos

Hyperplasia, Nos

Necrosis, Focal

Inflammation, Chronic

Hemosiderosis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Adrenal gland
Heart
Intestine Large
Intestine Small
Kidney
Liver
Lung
Prostate
Skin
Stomach
Testis

Medulla
Myocardium Nos
Descending, Colon
Mesentery Nos

Back

Hyperplasia, Focal
Inflammation, Chronic Focal
Adenocarcinoma In Adenomatous Polyp
Adenocarcinoma In Adenomatous Polyp, Metastatic
Inflammation, Chronic
Metamorphosis, Fatty
Inflammation, Chronic
Inflammation, Chronic Focal
Cyst, Epidermal Inclusion
Adenocarcinoma In Adenomatous Polyp, Metastatic
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Adrenal gland
Kidney
Liver

Medulla

Hyperplasia, Focal
Inflammation, Chronic
Focal Cellular Change
Hemangioma

Lung
Lymph node
Mammary gland
Prostate
Skin

Mandibular Lymph Node

Inflammation, Chronic
Hyperplasia, Lymphoid
Cystic Ducts
Inflammation, Chronic Focal
Cyst, Epidermal Inclusion

Testis

Back

Keratoacanthoma
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Carcinoma, Nos

Zymbal gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|-------------------|-------------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Intestine Large

Ascending Colon, Colon

Mucinous Cystadenocarcinoma

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Lymph node

Ileocolic Lymph Node

Lymphangiectasis

Testis

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

Cyst, Follicular Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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 | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Spleen | | Necrosis, Nos |
| | | Thrombosis, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_310

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Large

Cecum, Colon
Ascending Colon, Colon
Cecum, Colon

Hemorrhage
Mucinous Cystadenocarcinoma
Necrosis, Focal

Liver

Abscess, Nos
Necrosis, Focal

Lymph node

Hepatic Lymph Node
Hepatic Lymph Node

Hemorrhage
Hyperplasia, Lymphoid

Stomach

Acanthosis

Unspecified

Multiple Organs Nos

Hyperkeratosis
Mucinous Cystadenocarcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|-------------------------|-------------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Prostate | Coagulating Gland | Hyperplasia, Focal |
| | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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
Intestine Large

Cortex Nos
Transverse Colon, Colon
Ascending Colon, Colon

Kidney
Liver

Metamorphosis, Fatty
Adenomatous Polyp, Nos
Hyperplasia, Lymphoid
Inflammation, Chronic
Hepatitis, Toxic
Neoplastic Nodule

Stomach

Inflammation, Chronic
Necrosis, Focal

Testis

Unspecified

Multiple Organs Nos

Hyperplasia, Interstitial Cell
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Intestine Large

Kidney

Liver

Ascending Colon, Colon

Mucinous Cystadenocarcinoma

Inflammation, Chronic

Focal Cellular Change

Hepatocellular Carcinoma

Bile Duct

Hyperplasia, Nos

Neoplastic Nodule

Inflammation, Chronic

Lung

Skin

Stomach

Testis

Back

Cyst, Epidermal Inclusion

Acanthosis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Thyroid

C-Cell Carcinoma

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_314

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Small

Duodenum

Adenocarcinoma, Nos

Lung

Inflammation, Chronic

Unspecified

Multiple Organs Nos

Adenocarcinoma, Nos, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_315

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Hepatitis, Toxic |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Hyperplasia, Nos |
| Stomach | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Back | Fibroma |
| | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_316

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------------------|---|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Transverse Colon, Colon Colon | Adenocarcinoma In Adenomatous Polyp Necrosis, Focal |
| Kidney | Tubule | Inflammation, Chronic Pigmentation, Nos |
| Liver | Bile Duct | Focal Cellular Change Granuloma, Nos Hyperplasia, Nos Leukocytosis, Nos Metamorphosis, Fatty Neoplastic Nodule |
| Lung | Mandibular Lymph Node | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hyperplasia, Lymphoid Hyperplasia, Lymphoid |
| Pancreas | | Periarteritis |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | | Fibroma |
| Zymbal gland | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_317

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney
Liver

Medulla

Hyperplasia, Focal
Inflammation, Chronic
Degeneration, Nos
Focal Cellular Change

Lung
Lymph node
Mammary gland
Prostate

Mesenteric Lymph Node

Inflammation, Chronic
Hyperplasia, Reticulum Cell
Galactocele
Inflammation, Chronic Focal

Testis
Unspecified
Zymbal gland

Multiple Organs Nos

Interstitial-Cell Tumor
Leukemia, Monocytic
Cystic Ducts

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_318

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|----------------|----------------|--------------------------------|
| Brain | Cerebellum Nos | Abscess, Nos |
| Heart | Myocardium Nos | Fibrosis, Focal |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Pancreas | | Atrophy, Focal |
| Prostate | | Inflammation, Chronic Focal |
| Salivary gland | | Abscess, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_319

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenomatous Polyp, Nos |
| | Transverse Colon, Colon | Adenomatous Polyp, Nos |
| | Cecum, Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Pituitary gland | | Adenoma, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|----------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Granuloma, Nos |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Pancreas | Islets | Islet-Cell Adenoma |
| Pituitary gland | | Cyst, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_321

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-------------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Transverse Colon, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Degeneration, Nos |
| | | Focal Cellular Change |
| | | Hepatocellular Carcinoma |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Necrosis, Focal |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Preputial gland | | Cystic Ducts |
| Spleen | | Fibrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| | | Cyst, Follicular Nos |
| Unspecified | Head | Abscess, Nos |
| | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Carcinoma, Nos |
| | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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 Small

Duodenum

Adenomatous Polyp, Nos

Kidney

Duodenum

Inflammation, Chronic Focal

Lung

Inflammation, Chronic

Testis

Inflammation, Chronic

Zymbal gland

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_323

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large

Cortex Nos
Descending, Colon
Transverse Colon, Colon

Kidney

Metamorphosis, Fatty
Adenomatous Polyp, Nos
Adenomatous Polyp, Nos
Inflammation, Chronic

Liver

Spleen

Stomach

Sarcoma, Nos
Necrosis, Focal

Hematopoiesis

Acanthosis

Hyperkeratosis

Necrosis, Focal

Testis

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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 | Myocardium Nos | Inflammation, Chronic |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Intestine Large

Descending, Colon

Adenocarcinoma In Adenomatous Polyp

Intestine Small

Duodenum

Carcinoma, Nos

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Testis

Degeneration, Nos

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_326

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Metamorphosis, Fatty

Neoplastic Nodule

Lung

Inflammation, Chronic

Prostate

Inflammation, Chronic Focal

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Urinary bladder

Adenomatous Polyp, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Descending, Colon

Adenocarcinoma In Adenomatous Polyp

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Metamorphosis, Fatty

Lung

Inflammation, Chronic

Spleen

Inflammation, Chronic Focal

Stomach

Acanthosis

Testis

Hyperplasia, Interstitial Cell

Zymbal gland

Squamous Cell Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_328

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Mucinous Cystadenocarcinoma

Liver

Necrosis, Focal

Spleen

Hematopoiesis

Testis

Degeneration, Nos

Unspecified

Multiple Organs Nos

Mucinous Cystadenocarcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_329

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|------------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Angiectasis |
| | | Focal Cellular Change |
| | | Granuloma, Nos |
| | | Necrosis, Focal |
| | | Neoplastic Nodule |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Pigmentation, Nos |
| Pancreas | | Acinar-Cell Adenoma |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Zymbal gland | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH

-

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_330

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|--------------------------------|
| Adrenal gland | | Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Degeneration, Cystic |
| | | Focal Cellular Change |
| | | Metamorphosis, Fatty |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Atrophy, Focal |
| Pituitary gland | | Hyperplasia, Focal |
| Spleen | | Hematopoiesis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Perineum | Hemangiosarcoma |
| | Diaphragm Nos | Hernia, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_331

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Ascending Colon, Colon

Mucinous Cystadenocarcinoma

Mesentery Nos, Colon

Mucinous Cystadenocarcinoma, Metastatic

Lung

Inflammation, Chronic

Lymph node

Celiac Lymph Node

Mucinous Cystadenocarcinoma, Metastatic

Spleen

Hematopoiesis

Testis

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_332

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Large

Ascending Colon, Colon

Mucinous Cystadenocarcinoma

Descending, Colon

Mucinous Cystadenocarcinoma

Liver

Necrosis, Focal

Unspecified

Multiple Organs Nos

Mucinous Cystadenocarcinoma, Metastatic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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 | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Heart | Cardiac Valve | Inflammation, Chronic Focal |
| | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Transverse Colon, Colon | Adenomatous Polyp, Nos |
| | Transverse Colon, Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Pituitary gland | | Adenoma, Nos |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Zymbal gland | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_334

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|--------|----------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | | Sarcoma, Nos |
| Liver | | Degeneration, Cystic |
| | Bile Duct | Hyperplasia, Nos |
| | | Lipoma |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Spleen | | Hematopoiesis |
| Testis | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_335

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Lymph node

Cervical Lymph Node Nos

Hyperplasia, Lymphoid

Nasal cavity

Cervical Lymph Node Nos

Necrosis, Focal

Prostate

Inflammation, Chronic

Stomach

Inflammation, Acute Focal

Zymbal gland

Inflammation, Chronic

Necrosis, Nos

Carcinoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Intestine Large

Transverse Colon, Colon

Adenocarcinoma In Adenomatous Polyp

Kidney

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Nos

Lung

Inflammation, Chronic

Testis

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_337

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Ascending Colon, Colon

Mucinous Cystadenocarcinoma

Lung

Inflammation, Chronic

Spleen

Hematopoiesis

Testis

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Mucinous Cystadenocarcinoma, Metastatic

Zymbal gland

Keratoacanthoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Adrenal gland

Heart

Intestine Large

Kidney

Liver

Lung

Lymph node

Pancreas

Testis

Myocardium Nos

Transverse Colon, Colon

Tubule

Bile Duct

Mesenteric Lymph Node

Pheochromocytoma, Malignant

Inflammation, Chronic Focal

Adenocarcinoma In Adenomatous Polyp

Inflammation, Chronic

Pigmentation, Nos

Focal Cellular Change

Hyperplasia, Nos

Inflammation, Chronic

Pheochromocytoma, Metastatic

Hyperplasia, Reticulum Cell

Atrophy, Focal

Periarteritis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_339

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|----------------|-----------------------|--------------------------------|
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Fibrosis |
| | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Salivary gland | | Inflammation, Chronic |
| | | Metaplasia, Squamous |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Head | Abscess, Nos |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_340

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Angiectasis |
| | | Degeneration, Nos |
| | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Atrophy, Nos |
| | Mandibular Lymph Node | Hemorrhage |
| | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Lymphangiectasis |
| | Pancreatic Lymph Node | Pigmentation, Nos |
| Spleen | | Fibrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_341

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|---------------------|-----------------------------|
| Adrenal gland | | Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Pancreas | | Acinar-Cell Adenoma |
| | | Atrophy, Focal |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Back | Cyst, Epidermal Inclusion |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| | | Follicular-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_342

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-------------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | Tubule | Inflammation, Chronic |
| | | Pigmentation, Nos |
| Liver | | Degeneration, Nos |
| | | Focal Cellular Change |
| | | Hepatocellular Carcinoma |
| | Bile Duct | Hyperplasia, Nos |
| | | Metamorphosis, Fatty |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Preputial gland | | Cystic Ducts |
| Skin | Lower Leg | Squamous Cell Papilloma |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| | | Follicular-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Intestine Large

Descending, Colon

Adenomatous Polyp, Nos

Kidney

Inflammation, Chronic

Liver

Metamorphosis, Fatty

Lung

Inflammation, Chronic

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_344

TRT#: 4
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Cyst, Nos |
| | | Degeneration, Nos |
| | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | | Leukemia, Monocytic |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Pancreatic Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Fibroadenoma |
| Pituitary gland | | Angiectasis |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Zymbal gland | | Squamous Cell Papilloma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Intestine Large

Descending, Colon
Ascending Colon, Colon
Descending, Colon

Adenocarcinoma In Adenomatous Polyp
Adenomatous Polyp, Nos
Adenomatous Polyp, Nos
Inflammation, Chronic
Focal Cellular Change
Hyperplasia, Alveolar Epithelium
Inflammation, Chronic
Degeneration, Nos
Hyperplasia, Interstitial Cell

Kidney

Liver

Lung

Testis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|-------------------------|-------------------------------------|
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Transverse Colon, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Descending, Colon | Adenomatous Polyp, Nos |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Granuloma, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | | Hemorrhage |
| | Mesenteric Lymph Node | Hyperplasia, Lymphoid |
| | Mandibular Lymph Node | Hyperplasia, Reticulum Cell |
| | Mesenteric Lymph Node | Hyperkeratosis |
| Stomach | | Hyperplasia, Interstitial Cell |
| Testis | | Interstitial-Cell Tumor |
| | | C-Cell Carcinoma |
| Thyroid | | Carcinoma, Nos |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Intestine Large

Ascending Colon, Colon
Transverse Colon, Colon

Adenomatous Polyp, Nos
Adenomatous Polyp, Nos

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Lymph node

Mandibular Lymph Node

Inflammation, Chronic

Spleen

Hematopoiesis

Testis

Hyperplasia, Interstitial Cell

Unspecified

Mediastinum Nos

Hemangiosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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 marrow | | Hyperplasia, Nos |
| Intestine Large | Ascending Colon, Colon | Mucinous Cystadenocarcinoma |
| Lung | | Inflammation, Chronic |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Hematopoiesis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Mucinous Cystadenocarcinoma, Metastatic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|-------------------|-------------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Descending, Colon | Adenocarcinoma In Adenomatous Polyp |
| | Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Cyst, Multilocular |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Prostate | | Inflammation, Chronic Focal |
| Skin | | Cyst, Epidermal Inclusion |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_526

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Pancreatic Lymph Node | Pigmentation, Nos |
| Pituitary gland | | Adenoma, Nos |
| Preputial gland | | Cystic Ducts |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Axilla | Fibroma |
| | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_527

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|--------------------------------|
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | | Mixed Tumor, Benign |
| Liver | Bile Duct | Inflammation, Chronic |
| | | Leukocytosis, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hemorrhage |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Pancreas | | Atrophy, Focal |
| Prostate | | Inflammation, Chronic Focal |
| Seminal vesicle | | Cyst, Nos |
| Testis | | Degeneration, Nos |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Groin | Fibroma |
| Urethra | | Abscess, Nos |
| | | Hyperplasia, Epithelial |
| Urinary bladder | | Hemorrhage |
| | | Hyperplasia, Epithelial |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_528

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Esophagus | | Hyperkeratosis |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_529

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|-------------------------------|
| Bone | Rib | Degeneration, Nos |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Small | Mesentery Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Mammary gland | | Cystic Ducts |
| | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| | | Ulcer, Perforated |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_530

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_531

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|---------------------|-------------------------------|
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Pancreas | Islets | Islet-Cell Adenoma |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_532

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Kidney
Lung
Prostate
Testis

Cortex Nos
Descending, Colon

Metamorphosis, Fatty
Adenocarcinoma In Adenomatous Polyp
Inflammation, Chronic
Inflammation, Chronic
Inflammation, Chronic Focal
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Fibroma

Unspecified

Groin

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_533

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|-----------------------------|
| Adrenal gland | | Pheochromocytoma |
| Epididymis | | Necrosis, Fat |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Lung | | Congestion, Nos |
| | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| | Mesenteric Lymph Node | Hyperplasia, Lymphoid |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Seminal vesicle | | Cyst, Nos |
| | | Hyperplasia, Diffuse |
| Spleen | | Hemosiderosis |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Carcinoma |
| | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_534

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 | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Hemorrhage |
| | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mesenteric Lymph Node | Pigmentation, Nos |
| | Pancreatic Lymph Node | Pigmentation, Nos |
| 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: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_535

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Bone marrow | | Hyperplasia, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Granuloma, Nos |
| | | Inflammation, Acute Focal |
| | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Cystic Ducts |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Hematopoiesis |
| Thyroid | | C-Cell Adenoma |
| | | Hyperplasia, C Cell |
| Unspecified | Back | Sarcoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_536

TRT#: 5
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 Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Pituitary gland | | Cyst, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_537

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Inflammation, Chronic Focal

Kidney

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Nos

Lung

Inflammation, Chronic

Lymph node

Mandibular Lymph Node

Hyperplasia, Lymphoid

Mammary gland

Cystic Ducts

Testis

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor
Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_538

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Esophagus

Hyperkeratosis

Kidney

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Nos

Lung

Inflammation, Chronic

Lymph node

Mesenteric Lymph Node

Hemorrhage

Spleen

Mesenteric Lymph Node

Hyperplasia, Reticulum Cell

Stomach

Hematopoiesis

Acanthosis

Hyperkeratosis

Inflammation, Chronic

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_539

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|----------|----------------|--------------------------------|
| Brain | Cerebrum | Astrocytoma |
| | Cerebrum | Necrosis, Focal |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_540

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Adrenal gland | | Pheochromocytoma |
| Blood vessel | Mesenteric Artery Nos | Periarteritis |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Pancreas | | Periarteritis |
| Skin | Back | Basal-Cell Carcinoma |
| Spleen | | Hemosiderosis |
| Testis | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_541

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Esophagus
Kidney
Liver
Lung
Lymph node
Stomach

Cortex Nos

Metamorphosis, Fatty
Hyperkeratosis
Inflammation, Chronic
Hepatitis, Toxic
Inflammation, Chronic

Mediastinal Lymph Node

Pigmentation, Nos
Acanthosis
Hyperkeratosis
Inflammation, Chronic
Necrosis, Focal

Testis

Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

Unspecified
Urinary bladder

Multiple Organs Nos

Leukemia, Monocytic
Inflammation, Chronic Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_542

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Esophagus

Eye

Heart

Kidney

Lung

Stomach

Testis

Unspecified

Retina

Myocardium Nos

Back

Hyperkeratosis

Degeneration, Nos

Inflammation, Chronic Focal

Inflammation, Chronic

Inflammation, Chronic

Acanthosis

Hyperkeratosis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_543

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|-----------------------------|
| Adrenal gland | | Pheochromocytoma |
| Eye | Retina | Degeneration, Nos |
| | Crystalline Lens | Rupture |
| | Vitreous Body | Vascularization |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Hepatocellular Carcinoma |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| | | Pneumonia, Aspiration |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Back | Squamous Cell Carcinoma |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_544

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Liver

Lung

Oral mucosa

Testis

Thyroid

Palate

Metamorphosis, Fatty

Inflammation, Chronic

Leukocytosis, Nos

Pigmentation, Nos

Inflammation, Chronic

Squamous Cell Papilloma

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_545

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Lung | | Congestion, Nos |
| | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Pituitary gland | | Adenoma, Nos |
| Salivary gland | | Inflammation, Chronic |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_546

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Bone marrow | | Hyperplasia, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| | | Angiectasis |
| | | Hemorrhage |
| Skin | Lip Nos | Squamous Cell Papilloma |
| Stomach | | Acanthosis |
| | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_547

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|-----------------------|-------------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| | | Interstitial-Cell Tumor, Metastatic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mandibular Lymph Node | Lymphangiectasis |
| Testis | | Interstitial-Cell Tumor, Malignant |
| Thyroid | | Follicular-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_548

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Small | Mucosa, Duodenum | Hyperplasia, Diffuse |
| | Duodenum | Inflammation, Chronic Focal |
| | Duodenum | Metaplasia, Osseous |
| | Duodenum | Mucinous Cystadenocarcinoma |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Pancreas | | Atrophy, Focal |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Lip Nos | Squamous Cell Papilloma |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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 | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Large | Colon | Necrosis, Focal |
| Kidney | Tubule | Inflammation, Chronic Pigmentation, Nos |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| 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: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_550

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Leiomyoma |
| Intestine Small | Mesentery Nos | Inflammation, Chronic Focal |
| Kidney | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Parathyroid gland | | Hyperplasia, Nos |
| Spleen | | Fibrosis, Focal |
| Stomach | | Acanthosis |
| | | Ulcer, Perforated |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_551

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|---------------|------------------------|--------------------------------|
| Adrenal gland | | Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Pancreas | | Atrophy, Focal |
| Skin | Flank | Acanthosis |
| | Flank | Hyperkeratosis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_552

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 | Inflammation, Chronic Diffuse |
| | Atrium | Thrombosis, Nos |
| Kidney | | Inflammation, Chronic |
| | | Mineralization |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Pigmentation, Nos |
| Lung | Alveoli | Histiocytosis |
| | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Abscess, Nos |
| | | Inflammation, Chronic Focal |
| Spleen | | Hematopoiesis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_553

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Esophagus

Medulla

Hyperplasia, Focal
Hyperkeratosis

Heart
Intestine Small

Myocardium Nos

Squamous Cell Papilloma
Inflammation, Chronic Focal

Kidney

Jejunum

Leiomyosarcoma

Liver

Inflammation, Chronic

Lung

Necrosis, Focal

Prostate

Inflammation, Chronic

Testis

Inflammation, Chronic Focal

Thyroid

Interstitial-Cell Tumor

Unspecified

C-Cell Carcinoma

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
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

| | | |
|-------------|------------------------|-------------------------------|
| Bone marrow | | Hyperplasia, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | | Tubular-Cell Adenocarcinoma |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Pancreas | | Inflammation, Chronic Diffuse |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Hematopoiesis |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Adipose Tissue | Hemorrhage |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|----------------|----------------|----------------------------------|
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Degeneration, Nos |
| | Bile Duct | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | | Inflammation, Chronic |
| | | Leukocytosis, Nos |
| | | Pigmentation, Nos |
| Lung | | Hyperplasia, Alveolar Epithelium |
| | | Inflammation, Chronic |
| Pancreas | Islets | Islet-Cell Carcinoma |
| Salivary gland | | Fibrosarcoma, Invasive |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Shoulder | Fibrosarcoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_556

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|--------------|-----------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Granuloma, Nos |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Testis | | Hyperplasia, Interstitial Cell |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_557

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Lymphangiectasis |
| Pituitary gland | | Carcinoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| Thyroid | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-------------|------------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| | | Necrosis, Focal |
| Lymph node | Mediastinal Lymph Node | Pigmentation, Nos |
| Spleen | | Fibrosis, Focal |
| Testis | | Degeneration, Nos |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-------------|---------------------|-------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Pancreas | Islets | Islet-Cell Adenoma |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_560

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Hemorrhage

Pheochromocytoma

Thrombosis, Nos

Blood vessel

Aorta Nos

Mineralization

Heart

Myocardium Nos

Inflammation, Chronic Focal

Myocardium Nos

Mineralization

Intestine Large

Colon

Mineralization

Kidney

Inflammation, Chronic

Liver

Bile Duct

Fibrosis

Lung

Congestion, Nos

Inflammation, Chronic

Parathyroid gland

Adenoma, Nos

Hyperplasia, Nos

Prostate

Inflammation, Chronic Focal

Skin

Back

Basal-Cell Carcinoma

Spleen

Follicles

Atrophy, Nos

Stomach

Mineralization

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Carcinoma

Zymbal gland

Cystic Ducts

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_561

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Cortical Adenoma

Heart

Myocardium Nos

Metamorphosis, Fatty

Kidney

Inflammation, Chronic Focal

Liver

Inflammation, Chronic

Lung

Granuloma, Nos

Lymph node

Mesenteric Lymph Node

Inflammation, Chronic

Pancreas

Hyperplasia, Reticulum Cell

Spleen

Atrophy, Focal

Stomach

Hematopoiesis

Testis

Necrosis, Focal

Thyroid

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

C-Cell Carcinoma

Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_562

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|--------------------------|---|
| Adrenal gland | Cortex Nos Cortex Nos | Hyperplasia, Focal Metamorphosis, Fatty Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | Cortex | Cyst, Nos Inflammation, Chronic |
| | Tubule | Pigmentation, Nos Neoplastic Nodule Inflammation, Chronic |
| Liver | | Hyperplasia, Reticulum Cell |
| Lung | | Atrophy, Focal |
| Lymph node | Mesenteric Lymph Node | Fibrosis, Focal |
| Pancreas | | Interstitial-Cell Tumor |
| Spleen | | Cyst, Follicular Nos |
| Testis | | Fibroma |
| Thyroid | | Leukemia, Monocytic |
| Unspecified | Multiple Organs Nos | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_563

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|---|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Atrophy, Focal |
| Spleen | | Fibrosis, Focal Necrosis, Nos |
| 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: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_564

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic Mineralization |
| Liver | Tubule | Pigmentation, Nos Focal Cellular Change Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Pituitary gland | | Adenoma, Nos Cyst, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|------------------------|----------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Pigmentation, Nos |
| Lung | | Hyperplasia, Alveolar Epithelium |
| | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Pigmentation, Nos |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Adenoma |
| | | Follicular-Cell Carcinoma |
| | | Hyperplasia, C Cell |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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 | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Brain | | Hemorrhage Hydrocephalus, Nos |
| Kidney | | Inflammation, Chronic Pigmentation, Nos |
| Liver | Tubule Bile Duct | Hyperplasia, Nos Metamorphosis, Fatty |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Pituitary gland | | Carcinoma, Nos |
| Prostate | | Inflammation, Chronic Diffuse |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Adenoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-------------------|-----------------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| | | Pheochromocytoma |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Kidney | | Inflammation, Chronic |
| Lung | | Abscess, Nos |
| | Bronchus | Alveolar/Bronchiolar Carcinoma |
| | | Bronchiectasis |
| | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Back | Keratoacanthoma |
| Spleen | | Fibrosis, Focal |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Focal |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Alveolar/Bronchiolar Carcinoma, Metastatic |
| | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
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 | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| | | Pneumonia, Aspiration |
| Mammary gland | | Cystic Ducts |
| Pancreas | | Atrophy, Focal |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Hemosiderosis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_569

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Kidney

Inflammation, Chronic

Liver

Hepatitis, Toxic

Lung

Inflammation, Chronic

Pancreas

Atrophy, Focal

Penis

Cyst, Epidermal Inclusion

Prostate

Inflammation, Chronic Focal

Stomach

Acanthosis

Testis

Inflammation, Chronic Focal

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Zymbal gland

Leukemia, Monocytic

Cystic Ducts

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_570

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------|------------------------|--------------------------------|
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Pancreas | | Abscess, Nos |
| | | Inflammation, Chronic Focal |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Hemangiosarcoma |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Abdominal Cavity | Lipoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_571

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|------------------------|-------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Pigmentation, Nos |
| | Pancreatic Lymph Node | Pigmentation, Nos |
| Spleen | | Fibrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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 | Cortex Nos | Hyperplasia, Focal |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| Liver | Bile Duct | Fibrosis |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Lymphangiectasis |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos |
| | | Hemorrhage |
| Prostate | | Inflammation, Chronic Focal |
| Skin | | Cyst, Epidermal Inclusion |
| | Head | Trichoepithelioma |
| Stomach | | Acanthosis |
| | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| | | Ulcer, Perforated |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Adenoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_573

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Ileocolic Lymph Node | Lymphangiectasis |
| Pancreas | | Atrophy, Focal |
| Pituitary gland | | Angiectasis |
| | | Hyperplasia, Focal |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Back | Keratoacanthoma |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |
| Unspecified | Back | Fibroma |
| | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-------------------|------------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Bone | Rib | Degeneration, Nos |
| Heart | Myocardium Nos | Mineralization |
| Intestine Large | Cecum, Colon | Edema, Nos |
| | Cecum, Colon | Inflammation, Acute Focal |
| | Cecum, Colon | Necrosis, Focal |
| Liver | Bile Duct | Fibrosis |
| | | Pigmentation, Nos |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Abscess, Nos |
| | | Hyperplasia, Focal |
| Seminal vesicle | | Cyst, Nos |
| | | Hyperplasia, Epithelial |
| Spleen | | Fibrosis, Focal |
| | | Hemosiderosis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Ulcer, Perforated |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic |
| Urinary bladder | | Hemorrhage |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
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

| | | |
|-----------------|-----------------------|-----------------------------|
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Intestine Large | Cecum, Colon | Hemorrhage |
| Kidney | Tubule | Pigmentation, Nos |
| Liver | | Degeneration, Nos |
| | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Pancreatic Lymph Node | Hyperplasia, Lymphoid |
| Pituitary gland | | Angiectasis |
| | | Hyperplasia, Focal |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Tail | Squamous Cell Papilloma |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Inflammation, Chronic |
| | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_576

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 | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Parathyroid gland | | Hyperplasia, Nos |
| Prostate | | Inflammation, Chronic Diffuse |
| Spleen | | Fibrosarcoma |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Urinary bladder | | Inflammation, Chronic Focal |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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 | Inflammation, Chronic Focal |
| Intestine Large | Colon | Inflammation, Chronic Diffuse |
| | Cecum, Colon | Necrosis, Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Metamorphosis, Fatty |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Pigmentation, Nos |
| Parathyroid gland | | Hyperplasia, Nos |
| Skin | Flank | Cyst, Epidermal Inclusion |
| Spleen | | Hemosiderosis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| Testis | | Ulcer, Perforated |
| | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Neck | Fibroma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_578

TRT#: 5

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 | Inflammation, Chronic Diffuse |
| Intestine Small | Duodenum | Hyperplasia, Epithelial |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| | | Tubular-Cell Adenoma |
| Liver | | Adhesion, Nos |
| | | Focal Cellular Change |
| | | Metamorphosis, Fatty |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Cystic Ducts |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Abscess, Nos |
| Spleen | | Hemosiderosis |
| Stomach | | Inflammation, Chronic Diffuse |
| | | Ulcer, Perforated |
| Testis | | Degeneration, Nos |
| | | Periarteritis |
| Unspecified | Abdominal Cavity | Necrosis, Fat |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|---------------------|--|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Necrosis, Focal |
| Kidney | Tubule | Inflammation, Chronic Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Spleen | | Inflammation, Chronic |
| Stomach | | Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Tunica Vaginalis | Mesothelioma, Malignant |
| | Multiple Organs Nos | Mesothelioma, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
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

| | | |
|---------------|------------------------|--------------------------------|
| Adrenal gland | | Cortical Adenoma |
| | Medulla | Hyperplasia, Focal |
| Brain | Cerebrum | Astrocytoma |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | | Mixed Tumor, Benign |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Lymphangiectasis |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Pancreas | | Atrophy, Focal |
| | Islets | Islet-Cell Carcinoma |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thymus | | Cyst, Nos |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|------------------------|-------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Pancreas | | Atrophy, Focal |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_582

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|---------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Acanthosis |
| | Mucosa | Edema, Nos |
| | | Hyperkeratosis |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
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 |
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Atrophy, Focal |
| | | Ectopia |
| Pituitary gland | | Adenoma, Nos |
| Prostate | Coagulating Gland | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Neck | Sarcoma, Nos |
| | Multiple Organs Nos | Sarcoma, Nos, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_584

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|------------------------|--------------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Heart | Myocardium Nos | Fibrosis, Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| | | Hyperplasia, C Cell |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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 | | Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Inflammation, Chronic Focal |
| Intestine Small | Jejunum | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Lymphangiectasis |
| | Pancreatic Lymph Node | Pigmentation, Nos |
| Pancreas | | Ectopia |
| | Islets | Islet-Cell Carcinoma |
| Prostate | | Inflammation, Chronic Diffuse |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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
Esophagus
Eye

Cortex Nos

Hyperplasia, Focal
Hyperkeratosis
Cataract

Retina

Degeneration, Nos
Inflammation, Chronic

Heart
Intestine Large
Kidney
Liver

Myocardium Nos

Inflammation, Chronic Focal

Cecum, Colon

Hemorrhage

Inflammation, Chronic

Angiectasis

Hemorrhage

Bile Duct

Hyperplasia, Nos

Bile Duct

Inflammation, Chronic

Necrosis, Focal

Lung
Lymph node

Inflammation, Chronic

Mandibular Lymph Node

Hyperplasia, Lymphoid

Mesenteric Lymph Node

Hyperplasia, Reticulum Cell

Pituitary gland
Testis

Hyperplasia, Focal

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Zymbal gland

Cystic Ducts

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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 | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Hyperplasia, Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Cystic Ducts |
| Testis | | Interstitial-Cell Tumor |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

-

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_588

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Lung

Inflammation, Chronic

Testis

Hyperplasia, Interstitial Cell

Unspecified

Granuloma, Nos

Back

Neurofibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|-----------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mandibular Lymph Node | Lymphangiectasis |
| Pancreas | | Atrophy, Focal |
| | | Ectopia |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| 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: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_590

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Congestion, Nos Degeneration, Nos Focal Cellular Change |
| Lung | | Alveolar/Bronchiolar Carcinoma Congestion, Nos Edema, Nos Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Congestion, Nos |
| Mammary gland | Mesenteric Lymph Node | Hyperplasia, Lymphoid |
| Seminal vesicle | | Fibroadenoma Hyperplasia, Nos |
| Spleen | | Cyst, Nos Hyperplasia, Diffuse |
| Testis | | Hematopoiesis |
| Unspecified | Flank | Interstitial-Cell Tumor Abscess, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_591

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| | Cortex Nos | Metamorphosis, Fatty |
| Esophagus | | Hyperkeratosis |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Infarct, Nos |
| | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Neurofibrosarcoma, Metastatic |
| Mammary gland | | Cyst, Hemorrhagic |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Head | Neurofibrosarcoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_592

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Eye
Heart
Kidney

Medulla
Retina
Myocardium Nos

Liver
Lung
Lymph node

Mediastinal Lymph Node
Mediastinal Lymph Node

Prostate
Stomach

Testis
Thyroid

Hyperplasia, Focal
Degeneration, Nos
Inflammation, Chronic Focal
Alveolar/Bronchiolar Carcinoma, Metastatic
Inflammation, Chronic
Alveolar/Bronchiolar Carcinoma, Metastatic
Alveolar/Bronchiolar Carcinoma
Erythrophagocytosis
Pigmentation, Nos
Inflammation, Chronic Focal
Inflammation, Chronic Diffuse
Necrosis, Focal
Interstitial-Cell Tumor
C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_593

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-------------------|----------------|---|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Bone | Skull | Osteopetrosis |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | Cortex | Cyst, Nos Inflammation, Chronic |
| | Tubule | Pigmentation, Nos Degeneration, Nos Inflammation, Chronic |
| Liver | | Acinar-Cell Adenoma |
| Lung | | Hyperplasia, Nos |
| Pancreas | | Cyst, Epidermal Inclusion |
| Parathyroid gland | | Fibrosis, Focal |
| Skin | Back | Hemangiosarcoma Hematopoiesis Hemosiderosis |
| Spleen | | Acanthosis Hyperkeratosis Inflammation, Chronic Diffuse |
| Stomach | | Ulcer, Perforated |
| Testis | | Hyperplasia, Interstitial Cell Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Adenoma |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-------------------|----------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | Cortex | Cyst, Nos |
| | | Inflammation, Chronic |
| Liver | | Neoplastic Nodule |
| Lung | | Inflammation, Chronic |
| Parathyroid gland | | Hyperplasia, Nos |
| Skin | | Acanthosis |
| | Lip Nos | Squamous Cell Papilloma |
| Spleen | | Congestion, Nos |
| Testis | | Interstitial-Cell Tumor |
| Thymus | | Cyst, Nos |
| Thyroid | | C-Cell Carcinoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

Intestine Large

Cecum, Colon

Inflammation, Chronic Diffuse

Cecum, Colon

Necrosis, Focal

Kidney

Inflammation, Chronic

Lung

Inflammation, Chronic

Lymph node

Ileocolic Lymph Node

Lymphangiectasis

Salivary gland

Sarcoma, Nos, Invasive

Testis

Hyperplasia, Interstitial Cell

Unspecified

Neck

Interstitial-Cell Tumor

Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_596

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 | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | | Mineralization |
| | Tubule | Pigmentation, Nos |
| Liver | | Angiectasis |
| | | Focal Cellular Change |
| | | Thrombosis, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| | Mesenteric Lymph Node | Pigmentation, Nos |
| Preputial gland | | Cystic Ducts |
| Prostate | | Inflammation, Chronic Focal |
| Skin | Nose | Squamous Cell Papilloma |
| Testis | | Degeneration, Nos |
| | | Interstitial-Cell Tumor |
| | Tunica Vaginalis | Mesothelioma, Malignant |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| | Multiple Organs Nos | Mesothelioma, Invasive |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
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

| | | |
|-------------|------------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Pancreatic Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Metaplasia, Osseous |
| 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: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_598

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------------|---------------------|--|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Hepatitis, Toxic |
| | Bile Duct | Hyperplasia, Nos |
| | | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Hyperplasia, Focal |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_599

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|---------------------|-----------------------------|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| | | Pigmentation, Nos |
| Mammary gland | | Cystic Ducts |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_600

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|----------|--------------------------|--|
| Heart | Myocardium Nos Atrium | Fibrosis, Diffuse Thrombosis, Nos |
| Kidney | | Congestion, Nos Inflammation, Chronic |
| Liver | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Thymus | | Congestion, Nos |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
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

| | | |
|-----------------|-----------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | | Atrophy, Focal |
| Pituitary gland | | Angiectasis |
| | | Hyperplasia, Focal |
| Spleen | | Fibrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_602

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|--------------------------------|---|
| Adrenal gland | Cortex Nos Cortex Nos | Congestion, Nos Degeneration, Nos Necrosis, Fat |
| Epididymis | | Inflammation, Chronic Diffuse |
| Heart | Myocardium Nos | Hemorrhage |
| Intestine Small | Mesentery Nos Mesentery Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Tubule | Pigmentation, Nos Focal Cellular Change |
| | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Mammary gland | | Papillary Adenoma |
| Testis | | Degeneration, 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: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_603

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|-----------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| | | Necrosis, Focal |
| Lung | | Granuloma, Foreign Body |
| | | Hemorrhage |
| | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_604

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lung

Prostate

Stomach

Testis

Unspecified

Myocardium Nos

Bile Duct

Multiple Organs Nos

Pheochromocytoma

Inflammation, Chronic Focal

Inflammation, Chronic

Hepatitis, Toxic

Hyperplasia, Nos

Inflammation, Chronic

Inflammation, Chronic Focal

Necrosis, Focal

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_605

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Metamorphosis, Fatty
Pheochromocytoma

Heart

Myocardium Nos

Fibrosis, Diffuse

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Lung

Inflammation, Chronic

Lymph node

Mandibular Lymph Node

Hyperplasia, Lymphoid

Prostate

Adenocarcinoma, Nos

Testis

Degeneration, Nos

Thyroid

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Follicular-Cell Adenoma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_606

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|---------------|-----------------------|--------------------------------|
| Bone marrow | | Hyperplasia, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Hepatocellular Carcinoma |
| | Bile Duct | Hyperplasia, Nos |
| | | Necrosis, Focal |
| Lung | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Lymphoid |
| Mammary gland | | Cystic Ducts |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_607

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

| | | |
|-------------|---------------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Lung | | Inflammation, Chronic |
| Stomach | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| Unspecified | Back | Interstitial-Cell Tumor |
| | Multiple Organs Nos | Fibroma |
| | | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|------------------------|-------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Colon | Inflammation, Acute Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_609

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Epididymis

Heart

Kidney

Lung

Lymph node

Testis

Myocardium Nos

Mesenteric Lymph Node

Necrosis, Fat

Inflammation, Chronic Focal

Inflammation, Chronic

Granuloma, Nos

Inflammation, Chronic

Hyperplasia, Reticulum Cell

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_610

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------------|--|
| Adrenal gland | Cortex Nos | Metamorphosis, Fatty Pheochromocytoma |
| Bone marrow | | Hyperplasia, Nos |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Kidney | Tubule | Pigmentation, Nos |
| Liver | | Metamorphosis, Fatty |
| Pituitary gland | | Angiectasis |
| | | Pigmentation, Nos |
| Prostate | | Abscess, Nos |
| Seminal vesicle | | Abscess, Nos |
| Skin | | Acanthosis |
| | | Hyperkeratosis |
| Spleen | | Hematopoiesis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Inflammation, Acute |
| | Multiple Organs Nos | Inflammation, Chronic |
| Urinary bladder | | Hyperplasia, Diffuse |
| | | Necrosis, Focal |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_611

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|------------|-----------------------|-----------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Angiectasis |
| | | Degeneration, Nos |
| | | Focal Cellular Change |
| | | Leukemia, Monocytic |
| | | Neoplastic Nodule |
| | | Pigmentation, Nos |
| Lung | | Granuloma, Nos |
| | | Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Prostate | | Inflammation, Chronic Focal |
| Stomach | | Cyst, Nos |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Carcinoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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
Heart
Intestine Large
Kidney
Lung
Lymph node
Skin
Testis

Unspecified

Cortex Nos
Myocardium Nos
Cecum, Colon

Mesenteric Lymph Node
Chest

Neck

Metamorphosis, Fatty
Inflammation, Chronic Focal
Parasitism
Inflammation, Chronic
Inflammation, Chronic
Hyperplasia, Reticulum Cell
Cyst, Epidermal Inclusion
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|------------------------|--------------------------------|
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Small | Mesentery Nos | Hemorrhage |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Pigmentation, Nos |
| Pancreas | | Acinar-Cell Adenoma |
| Skin | Chest | Cyst, Epidermal Inclusion |
| Spleen | | Hemosiderosis |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Diffuse |
| | | Necrosis, Focal |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_614

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal Pheochromocytoma |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | | Hepatitis, Toxic |
| Lung | | Inflammation, Chronic |
| Lymph node | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| Pancreas | Acinus | Hyperplasia, Focal |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Seminal vesicle | | Cyst, Nos |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_615

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Intestine Large

Kidney

Liver

Lung

Lymph node

Skin

Testis

Thyroid

Unspecified

Myocardium Nos

Cecum, Colon

Tubule

Bile Duct

Mandibular Lymph Node

Face

Multiple Organs Nos

Back

Pheochromocytoma

Inflammation, Chronic Focal

Adenomatous Polyp, Nos

Inflammation, Chronic

Pigmentation, Nos

Granuloma, Nos

Inflammation, Chronic

Necrosis, Focal

Inflammation, Chronic

Hyperplasia, Lymphoid

Basal-Cell Carcinoma

Interstitial-Cell Tumor

Hyperplasia, C Cell

Leukemia, Monocytic

Lipoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_616

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Liver

Lung

Pharynx

Prostate

Testis

Thyroid

Bile Duct

Inflammation, Chronic

Hyperplasia, Nos

Inflammation, Chronic

Squamous Cell Papilloma

Inflammation, Chronic Focal

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_617

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-----------------|----------------|--------------------------------|
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Leukemia, Monocytic |
| Lung | | Inflammation, Chronic |
| | | Osteosarcoma, Metastatic |
| Pancreas | | Atrophy, Diffuse |
| | | Ectopia |
| Pituitary gland | | Cyst, Nos |
| Spleen | | Hematopoiesis |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Unspecified | Thigh | Fibroma |
| | Shoulder | Osteosarcoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_618

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|-----------------------------|
| Blood vessel | Mesenteric Artery Nos | Inflammation, Chronic |
| Epididymis | | Necrosis, Fat |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Intestine Large | Cecum, Colon | Inflammation, Chronic Focal |
| | Colon | Parasitism |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| Lung | | Inflammation, Chronic |
| Lymph node | Ileocolic Lymph Node | Lymphangiectasis |
| | Mandibular Lymph Node | Lymphangiectasis |
| Mammary gland | | Hyperplasia, Nos |
| Pancreas | Islets | Islet-Cell Adenoma |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Chest | Fibroma |
| | Adipose Tissue | Hemorrhage |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_619

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|---------------|-------------------------------|
| Eye | Retina | Degeneration, Nos |
| Intestine Small | Mesentery Nos | Inflammation, Acute Focal |
| Kidney | Tubule | Hyperplasia, Focal |
| | | Inflammation, Acute Focal |
| | | Inflammation, Chronic |
| | | Necrosis, Focal |
| Liver | | Hepatocellular Carcinoma |
| Lung | | Granuloma, Nos |
| | | Inflammation, Chronic |
| Pancreas | Islets | Islet-Cell Carcinoma |
| Prostate | | Inflammation, Chronic Diffuse |
| Seminal vesicle | | Hyperplasia, Diffuse |
| Skin | Flank | Basal-Cell Carcinoma |
| Testis | | Degeneration, Nos |
| | | Interstitial-Cell Tumor |
| Unspecified | Flank | Fibroma |
| Urinary bladder | | Hemorrhage |
| | | Inflammation, Acute Diffuse |
| | | Necrosis, Diffuse |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-------------------|---------------------|--|
| Eye | | Cataract |
| | Retina | Degeneration, Nos Hemorrhage |
| | Cornea | Inflammation, Acute Focal Synechia, Posterior |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | Bile Duct | Hyperplasia, Nos Pigmentation, Nos |
| Lung | | Inflammation, Chronic |
| Mammary gland | | Cystic Ducts |
| Pancreas | Islets | Islet-Cell Adenoma |
| Parathyroid gland | | Hyperplasia, Nos |
| Pituitary gland | | Adenoma, Nos Angiectasis |
| Prostate | | Inflammation, Chronic Focal |
| Salivary gland | | Cystic Ducts |
| Stomach | | Acanthosis Inflammation, Chronic Focal Necrosis, Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_621

TRT#: 5

SEX: Male

DAY ON TEST:

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

| | | |
|-------------|---------------------|-----------------------------|
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Pancreas | | Ectopia |
| Spleen | | Hematopoiesis |
| Testis | | Interstitial-Cell Tumor |
| | Tunica Vaginalis | Mesothelioma, Malignant |
| Unspecified | Multiple Organs Nos | Mesothelioma, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|------------|------------------------|--------------------------------|
| Esophagus | | Hyperkeratosis |
| Eye | Retina | Degeneration, Nos |
| Heart | | Inflammation, Chronic Focal |
| Kidney | | Inflammation, Chronic |
| | Tubule | Pigmentation, Nos |
| Liver | | Granuloma, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Spleen | | Fibrosis, Focal |
| Stomach | | Acanthosis |
| | | Hyperkeratosis |
| | | Inflammation, Chronic Focal |
| | | Necrosis, Focal |
| | | Parasitism |
| Testis | | Hyperplasia, Interstitial Cell |
| | | Interstitial-Cell Tumor |
| Thyroid | | C-Cell Adenoma |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_623

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|---------------|------------------------|--|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Eye | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic |
| Liver | Bile Duct | Hyperplasia, Nos |
| | Bile Duct | Inflammation, Chronic |
| Lung | | Alveolar/Bronchiolar Carcinoma |
| | Pleura Nos | Alveolar/Bronchiolar Carcinoma, Metastatic |
| Lymph node | Mediastinal Lymph Node | Erythrophagocytosis |
| | Mediastinal Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Pancreas | | Atrophy, Focal |
| Skin | Neck | Trichoepithelioma |
| Spleen | | Hematopoiesis |
| Testis | | Hyperplasia, Interstitial Cell |
| Thyroid | | Interstitial-Cell Tumor |
| | | C-Cell Adenoma |
| | | Hyperplasia, C Cell |
| Unspecified | Multiple Organs Nos | Alveolar/Bronchiolar Carcinoma, Invasive |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite
CAS Number: 12172-73-5

Date Report Requested: 10/26/2014
Time Report Requested: 17:02:27
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 5_624

TRT#: 5
DOSE: 10000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

| | | |
|-----------------|-----------------------|--|
| Eye | Retina | Cataract Degeneration, Nos Hemorrhage |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Kidney | | Inflammation, Chronic Metamorphosis, Fatty |
| Liver | Bile Duct | Hyperplasia, Nos |
| Lung | Bile Duct | Inflammation, Chronic Granuloma, Nos Inflammation, Chronic |
| Lymph node | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| Pituitary gland | | Adenoma, Nos |
| Prostate | | Inflammation, Chronic Focal |
| Testis | | Interstitial-Cell Tumor |
| Thyroid | | Follicular-Cell Carcinoma |
| Unspecified | Multiple Organs Nos | Leukemia, Monocytic |
| Zymbal gland | | Cystic Ducts |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C60253A

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Asbestos, amosite

CAS Number: 12172-73-5

Date Report Requested: 10/26/2014

Time Report Requested: 17:02:27

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

| | | |
|-----------------|------------------------|-------------------------------|
| Adrenal gland | Medulla | Hyperplasia, Focal |
| Eye | | Cataract |
| | Retina | Degeneration, Nos |
| Heart | Myocardium Nos | Inflammation, Chronic Diffuse |
| Intestine Small | Jejunum | Leiomyosarcoma |
| Kidney | | Inflammation, Chronic |
| Liver | | Focal Cellular Change |
| | | Granuloma, Nos |
| | Bile Duct | Hyperplasia, Nos |
| Lung | | Inflammation, Chronic |
| Lymph node | Mediastinal Lymph Node | Hemorrhage |
| | Mandibular Lymph Node | Hyperplasia, Lymphoid |
| | Mesenteric Lymph Node | Hyperplasia, Reticulum Cell |
| | Mediastinal Lymph Node | Pigmentation, Nos |
| Pancreas | | Acinar-Cell Carcinoma |
| Skin | Lip Nos | Abscess, Nos |
| | Back | Cyst, Epidermal Inclusion |
| Testis | | Interstitial-Cell Tumor |
| Unspecified | Thorax | Fibroma |
| Zymbal gland | | Carcinoma, Nos |

PRIMARY CAUSE OF DEATH

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** END OF REPORT **

* PROTOCOL REQUIRED TISSUE