

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

C Number: C50011

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Male

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_001

TRT#: 1

DOSE: 0

SEX: Male

DISP: Natural Death

DAY ON TEST:

HISTO:

OBSERVATIONS

Brain	Carcinoma, Nos, Invasive
Kidney	Inflammation, Chronic
Pituitary gland	Carcinoma, Nos
Skin	Fibrosis
Spleen	Atrophy, Nos
Stomach	Inflammation, Chronic Focal
Testis	Degeneration, Nos
Thymus	Cyst, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_002

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Kidney

Liver

Testis

Thyroid

Inflammation, Chronic

Focal Cellular Change

Degeneration, Nos

Interstitial-Cell Tumor

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_003

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Heart

Kidney

Testis

Fibrosis

Inflammation, Chronic

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_004

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Heart
Kidney
Preputial gland
Testis

Thyroid
Unspecified

Groin

Fibrosis
Inflammation, Chronic
Carcinoma, Nos
Degeneration, Nos
Interstitial-Cell Tumor
Hyperplasia, C Cell
Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_005

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Heart

Intestine Large

Kidney

Lung

Testis

Large Intestine, Colon

Fibrosis

Nematodiasis

Inflammation, Chronic

Hemorrhage

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_006

TRT#: 1
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Brain		Astrocytoma
Kidney		Inflammation, Chronic
Liver		Infarct, Nos
Pancreas	Islets	Islet-Cell Adenoma
Testis		Degeneration, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_007

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Atrium	Thrombosis, Nos
Liver		Metamorphosis, Fatty
Skin		Fibrosis
Stomach		Ulcer, Focal
Trachea	Submucosa	Inflammation, Suppurative
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzo(a)pyrene

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_008

TRT#: 1
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Nos

Pheochromocytoma

Intestine Large

Large Intestine, Colon

Nematodiasis

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Metamorphosis, Fatty

Lung

Pneumonia, Chronic Murine

Testis

Degeneration, Nos

Interstitial-Cell Tumor

Thyroid

Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_009

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Aorta Nos

Inflammation, Nos

Heart

Coronary Artery Nos

Periarteritis

Kidney

Fibrosis

Liver

Inflammation, Chronic

Testis

Focal Cellular Change

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_010

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Heart		Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
Preputial gland		Carcinoma, Nos
		Inflammation, Suppurative
Testis		Degeneration, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_011

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Lung		Neoplasm, Malignant, Nos
Unspecified	Thoracic Cavity Nos	Neoplasm, Malignant, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_012

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Testis

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_013

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart

Auricular Appendage Nos

Fibrosis

Liver

Thrombosis, Nos

Testis

Metamorphosis, Fatty

Degeneration, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_014

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Heart

Liver

Testis

Fibrosis

Focal Cellular Change

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_015

TRT#: 1
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Genitourinary tract		Inflammation, Acute Hemorrhagic
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Hyperplasia, Focal
Preputial gland		Abscess, Nos
		Carcinoma, Nos
Spleen		Atrophy, Nos
Stomach	Mucosa	Mineralization
Testis		Degeneration, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Trachea	Gland	Distention
Ureter		Hyperplasia, Epithelial
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_016

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney
Liver
Preputial gland
Testis

Medulla

Bile Duct

Hyperplasia, Nos
Fibrosis
Inflammation, Chronic
Hyperplasia, Nos
Carcinoma, Nos
Degeneration, Nos
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_017

TRT#: 1

DOSE: 0

SEX: Male

DISP: Natural Death

DAY ON TEST:

HISTO:

OBSERVATIONS

Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Lung		Congestion, Nos
Prostate		Hyperplasia, Epithelial
Testis		Degeneration, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_018

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland

Brain

Heart

Kidney

Liver

Pituitary gland

Seminal vesicle

Testis

Bile Duct

Unspecified

Multiple Organs Nos

Pheochromocytoma

Compression, Nos

Fibrosis

Inflammation, Chronic

Hyperplasia, Nos

Hyperplasia, Chromophobe Cell

Atrophy, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011
Test Type: Long-Term
Route: Dosed-Feed
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Benzoin
CAS Number: 119-53-9

Date Report Requested: 10/26/2014
Time Report Requested: 12:27:50
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_019

TRT#: 1
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Brain		Embolus, Septic Malacia
Heart	Myocardium Nos Cardiac Valve	Fibrosis Inflammation, Suppurative Thrombosis, Nos
Kidney		Embolus, Septic Inflammation, Chronic Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
Lymph node	Mesenteric Lymph Node	Lymphangiectasis
Pancreas		Edema, Interstitial Inflammation, Suppurative
Spleen		Fibrosis, Multifocal
Stomach		Embolus, Septic
Testis		Degeneration, Nos Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_020

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart		Fibrosis
Intestine Large	Large Intestine, Colon	Nematodiasis
Kidney		Inflammation, Chronic
Lung		Pneumonia, Chronic Murine
Pancreas		Ectopia
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Unspecified	Back Nos	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_021

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Testis

Thyroid

Pheochromocytoma

Inflammation, Chronic

Degeneration, Nos

Interstitial-Cell Tumor

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_022

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Lung

Alveolar Wall

Epithelialization

Testis

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_023

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Testis

Bile Duct

Pheochromocytoma

Fibrosis

Inflammation, Chronic

Hyperplasia, Nos

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_024

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Heart		Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Lung		Congestion, Nos
Preputial gland		Adenoma, Nos
		Inflammation, Active Chronic
Testis		Degeneration, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_025

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Kidney

Testis

Inflammation, Chronic

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_026

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye
Kidney
Pituitary gland
Preputial gland

Cornea

Inflammation, Nos
Inflammation, Chronic
Cyst, Nos
Adenoma, Nos
Inflammation, Chronic
Degeneration, Nos
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_027

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Liver	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Suppurative
Pancreas		Edema, Interstitial
Prostate		Abscess, Nos
		Inflammation, Suppurative
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Leg	Keratoacanthoma
	Multiple Organs Nos	Leukemia, Monocytic
	Abdominal Cavity	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_028

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Kidney

Parathyroid gland

Testis

Inflammation, Chronic

Hyperplasia, Nos

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_029

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney		Inflammation, Chronic Mineralization
Liver	Bile Duct	Hyperplasia, Nos
Pancreas	Islets	Islet-Cell Adenoma
Parathyroid gland		C-Cell Carcinoma, Invasive
Spleen		Atrophy, Nos
Testis		Degeneration, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Flank	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_030

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Pancreas

Islets

Islet-Cell Adenoma

Skin

Fibrosis

Testis

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_031

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Heart		Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Pituitary gland		Hyperplasia, Chromophobe Cell
Testis		Degeneration, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_032

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Pituitary gland

Testis

Unspecified

Groin

Pheochromocytoma

Fibrosis

Inflammation, Chronic

Hyperplasia, Chromophobe Cell

Degeneration, Nos

Interstitial-Cell Tumor

Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_033

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Nos

Liver

Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Lung

Pneumonia, Chronic Murine

Pituitary gland

Cyst, Nos

Preputial gland

Carcinoma, Nos

Spleen

Hematopoiesis

Testis

Degeneration, Nos

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_034

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Kidney		Inflammation, Chronic
Lung	Alveolar Wall	Epithelialization
Testis		Interstitial-Cell Tumor
Unspecified	Abdominal Cavity	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_035

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Brain		Ependymoma
Heart		Fibrosis
Intestine Small	Mesentery Nos	Periarteritis
Kidney		Inflammation, Chronic
Spleen		Fibrosis
Testis		Degeneration, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_036

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Blood vessel
Intestine Small
Kidney
Pituitary gland
Prostate
Testis

Coronary Artery Nos
Mesentery Nos

Periarteritis
Periarteritis
Inflammation, Chronic
Cyst, Nos
Periarteritis
Degeneration, Nos
Interstitial-Cell Tumor
Periarteritis

Urinary bladder

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_037

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Liver

Pancreas

Seminal vesicle

Skin

Testis

Thyroid

Unspecified

Bile Duct

Periportal

Islets

Flank

Multiple Organs Nos

Pheochromocytoma

Hyperplasia, Nos

Necrosis, Nos

Islet-Cell Adenoma

Abscess, Nos

Fibrosis

Degeneration, Nos

Interstitial-Cell Tumor

C-Cell Adenoma

Fibroma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_038

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone marrow
Mammary gland
Spleen
Testis

Hypoplasia, Nos
Lactation
Atrophy, Nos
Degeneration, Nos
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor
Fibroma

Unspecified

Back

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_039

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart

Fibrosis

Kidney

Mineralization

Skin

Inflammation, Chronic

Testis

Keratoacanthoma

Unspecified

Multiple Organs Nos

Degeneration, Nos

Abdominal Cavity

Interstitial-Cell Tumor

Leukemia, Monocytic

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_040

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Testis

Degeneration, Nos
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

Unspecified

Axilla

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_041

TRT#: 1

DOSE: 0

SEX: Male

DISP: Natural Death

DAY ON TEST:

HISTO:

OBSERVATIONS

Liver

Centrilobular

Necrosis, Nos

Lung

Leukocytosis, Nos

Thrombosis, Nos

Spleen

Hematopoiesis

Testis

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_042

TRT#: 1

DOSE: 0

SEX: Male

DISP: Natural Death

DAY ON TEST:

HISTO:

OBSERVATIONS

Brain

Heart

Lung

Testis

Hemorrhage

Fibrosis

Hemorrhage

Degeneration, Nos

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_043

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Prostate

Testis

Pheochromocytoma

Fibrosis

Inflammation, Chronic

Focal Cellular Change

Abscess, Nos

Inflammation, Suppurative

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_044

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Pituitary gland

Adenoma, Nos

Testis

Hyperplasia, Interstitial Cell

Unspecified

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_045

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart

Intestine Large

Testis

Unspecified

Large Intestine, Colon

Tunica Vaginalis

Abdominal Cavity

Fibrosis

Nematodiasis

Interstitial-Cell Tumor

Mesothelioma, Nos

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_046

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Heart		Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Unspecified	Back	Sebaceous Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_047

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Large Intestine, Colon

Nematodiasis

Liver

Focal Cellular Change

Pancreas

Acinus

Atrophy, Nos

Testis

Degeneration, Nos

Unspecified

Flank

Interstitial-Cell Tumor

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_048

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Pancreas

Acinus

Atrophy, Nos

Testis

Degeneration, Nos

Interstitial-Cell Tumor

Unspecified

Abdominal Cavity

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_049

TRT#: 1
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Heart

Intestine Large
Liver

Lung
Prostate

Spleen
Testis

Unspecified

Large Intestine, Colon

Bile Duct

Groin

Pheochromocytoma
Fibroelastosis, Endocardial
Fibrosis
Nematodiasis
Bile Stasis
Hyperplasia, Nos
Congestion, Nos
Inflammation, Suppurative
Congestion, Nos
Degeneration, Nos
Interstitial-Cell Tumor
Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_050

TRT#: 1

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Heart		Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Lung		Hemorrhage
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Lymphoid
	Mesenteric Lymph Node	Hyperplasia, Lymphoid
Testis		Degeneration, Nos
		Hyperplasia, Interstitial Cell
Thyroid		Interstitial-Cell Tumor
		Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_001

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart

Kidney

Pancreas

Testis

Acinus

Fibrosis

Inflammation, Chronic

Atrophy, Focal

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_002

TRT#: 2

DOSE: 125 PPM

SEX: Male

DISP: Natural Death

DAY ON TEST:

HISTO:

OBSERVATIONS

Heart

Kidney

Pancreas

Testis

Islets

Fibrosis

Inflammation, Chronic

Islet-Cell Carcinoma

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_003

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart		Fibrosis
Liver	Centrilobular	Necrosis, Nos
Prostate		Inflammation, Suppurative
Stomach		Ulcer, Focal
Testis		Hyperplasia, Interstitial Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_004

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Preputial gland

Testis

Carcinoma, Nos

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_005

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney
Pituitary gland
Prostate
Testis

Pheochromocytoma
Inflammation, Chronic
Adenoma, Nos
Inflammation, Suppurative
Degeneration, Nos
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: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_006

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart		Fibrosis
		Inflammation, Chronic
Kidney		Inflammation, Chronic
Lung		Hyperplasia, Adenomatous
		Metaplasia, Osseous
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_007

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Testis

Pheochromocytoma

Inflammation, Chronic

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_008

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart		Fibrosis
Intestine Small	Mesentery Nos	Periarteritis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Lung		Congestion, Nos
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Hyperplasia, Nos
Testis		Degeneration, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_009

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart		Fibrosis
Kidney		Inflammation, Chronic
Pancreas	Acinus	Atrophy, Focal
Testis		Degeneration, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma
Unspecified		Osteosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_010

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone marrow

Lung

Stomach

Testis

Unspecified

Mucosa

Hypoplasia, Nos

Pneumonia, Chronic Murine

Sarcoma, Nos, Metastatic

Hemorrhage

Ulcer, Focal

Atrophy, Nos

Hyperplasia, Interstitial Cell

Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_011

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Large
Kidney
Liver
Lymph node
Testis

Unspecified

Medulla

Large Intestine, Colon

Cervical Lymph Node Nos

Tail

Hyperplasia, Focal
Fibrosis
Nematodiasis
Inflammation, Chronic
Infarct, Nos
Hyperplasia, Lymphoid
Degeneration, Nos
Interstitial-Cell Tumor
Abscess, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_012

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart

Fibrosis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_013

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Kidney

Inflammation, Chronic

Pancreas

Islets

Hyperplasia, Nos

Testis

Degeneration, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_014

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Lung

Lymph node

Mammary gland

Pituitary gland

Cervical Lymph Node Nos

Mesenteric Lymph Node

Congestion, Nos

Hyperplasia, Lymphoid

Hyperplasia, Lymphoid

Lactation

Adenoma, Nos

Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_015

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Lung

Pancreas

Testis

Islets

Pheochromocytoma

Inflammation, Chronic

Hemorrhage

Islet-Cell Adenoma

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_016

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart

Kidney

Lung

Pituitary gland

Testis

Fibrosis

Inflammation, Chronic

Pneumonia, Chronic Murine

Adenoma, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzo(a)pyrene

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_017

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Coronary Artery Nos	Periarteritis
Heart		Fibrosis
Kidney		Inflammation, Chronic
Lung		Pneumonia, Chronic Murine
Pancreas	Acinus	Atrophy, Focal
Testis		Degeneration, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_018

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Pancreas

Testis

Acinus

Inflammation, Chronic

Atrophy, Focal

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_019

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart		Fibrosis
Kidney		Inflammation, Chronic
Liver	Centrilobular	Necrosis, Nos
Pancreas	Islets	Hyperplasia, Nos
Preputial gland		Carcinoma, Nos
		Inflammation, Suppurative
Skin	Back	Inflammation, Suppurative
	Back	Ulcer, Nos
Spleen		Hematopoiesis
Testis		Degeneration, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Back	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_020

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart		Fibrosis
Kidney		Inflammation, Chronic
Pancreas	Islets	Islet-Cell Adenoma
Skin	Flank	Inflammation, Suppurative
Stomach		Ulcer, Focal
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Trachea		Inflammation, Suppurative
		Rupture
Unspecified	Flank	Basal-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_021

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Nos

Blood vessel

Aorta Nos

Arteriosclerosis, Nos

Heart

Necrosis, Focal

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Parathyroid gland

Hyperplasia, Nos

Spleen

Atrophy, Nos

Testis

Pigmentation, Nos

Degeneration, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_022

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Fibrosis

Kidney

Inflammation, Chronic

Pancreas

Acinus

Atrophy, Nos

Testis

Interstitial-Cell Tumor

Trachea

Gland

Cyst, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_023

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Kidney

Testis

Inflammation, Chronic

Degeneration, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_024

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Large
Kidney
Lung
Pituitary gland
Testis

Large Intestine, Colon

Pheochromocytoma
Nematodiasis
Inflammation, Chronic
Pneumonia, Chronic Murine
Hyperplasia, Chromophobe Cell
Degeneration, Nos
Interstitial-Cell Tumor
Leukemia, Monocytic

Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_025

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Kidney

Liver

Lung

Spleen

Testis

Hypoplasia, Nos

Inflammation, Chronic

Hematopoiesis

Pneumonia, Chronic Murine

Hematopoiesis

Degeneration, Nos

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Mesothelioma, Malignant

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_026

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Lymph node

Cervical Lymph Node Nos

Hyperplasia, Lymphoid

Testis

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_027

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Blood vessel

Kidney

Aorta Nos

Cortical Carcinoma

Arteriosclerosis, Nos

Inflammation, Chronic

Mineralization

Liver

Bile Duct

Hyperplasia, Nos

Necrosis, Nos

Lung

Congestion, Nos

Pancreas

Necrosis, Focal

Spleen

Atrophy, Nos

Testis

Degeneration, Nos

Interstitial-Cell Tumor

Unspecified

Abdominal Cavity

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_028

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney		Inflammation, Chronic
Liver	Centrilobular	Necrosis, Coagulative
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_029

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:50

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_030

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Kidney

Liver

Seminal vesicle

Testis

Bile Duct

Unspecified

Multiple Organs Nos

Inflammation, Chronic

Hyperplasia, Nos

Hyperplasia, Epithelial

Degeneration, Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_031

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Bone marrow
Heart
Kidney
Liver

Cortex Nos

Degeneration, Nos
Necrosis, Focal
Fibrosis
Inflammation, Chronic

Mammary gland
Testis

Bile Duct

Fibrosis, Cholangio
Inflammation, Chronic
Fibroadenoma
Degeneration, Nos
Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Lymphoma, Histiocytic-Malignant Type

Multiple Organs Nos

Mesothelioma, Malignant

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzo(a)pyrene

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_032

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Liver

Parathyroid gland

Prostate

Testis

Centrilobular

Unspecified

Multiple Organs Nos

Necrosis, Focal

Inflammation, Chronic

Necrosis, Nos

Hyperplasia, Nos

Inflammation, Suppurative

Degeneration, Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_033

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos
Medulla

Degeneration, Nos
Hyperplasia, Focal
Pheochromocytoma
Inflammation, Chronic
Inflammation, Chronic
Infarct, Nos
Pneumonia, Chronic Murine

Epididymis

Kidney

Liver

Lung

Pancreas

Testis

Acinus

Atrophy, Focal
Degeneration, Nos
Granuloma, Spermatic
Interstitial-Cell Tumor
Necrosis, Fat

Unspecified

Abdominal Cavity

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_034

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart		Fibrosis
Kidney		Inflammation, Chronic
Liver	Centrilobular	Necrosis, Nos
Testis		Degeneration, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Abdominal Cavity	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_035

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Skin	Back	Keratoacanthoma
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_036

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Liver	Fibrosis, Cholangio
Skin	Fibrosis
Spleen	Infarct, Nos
Testis	Degeneration, Nos
	Hyperplasia, Interstitial Cell
	Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_037

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Atrium	Thrombosis, Nos
Kidney		Congestion, Nos
		Inflammation, Chronic
Liver		Congestion, Nos
Lung		Congestion, Nos
Spleen		Atrophy, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_038

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Intestine Large

Pancreas

Parathyroid gland

Preputial gland

Testis

Large Intestine, Colon

Islets

Pheochromocytoma

Fibrosis

Nematodiasis

Hyperplasia, Nos

Hyperplasia, Nos

Carcinoma, Nos

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzo(a)pyrene

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_039

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart		Fibrosis
Kidney		Inflammation, Chronic
Liver	Centrilobular	Necrosis, Nos
		Peliosis Hepatis
Lung		Leukocytosis, Nos
Pancreas	Acinus	Necrosis, Nos
Spleen		Fibrosis, Focal
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Unspecified	Flank	Fibroma
	Multiple Organs Nos	Mesothelioma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_040

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Pheochromocytoma

Heart

Fibrosis

Kidney

Inflammation, Chronic

Pancreas

Acinus

Degeneration, Nos

Parathyroid gland

Hyperplasia, Nos

Testis

Degeneration, Nos

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_041

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Intestine Large

Large Intestine, Colon

Nematodiasis

Kidney

Inflammation, Chronic

Liver

Bile Stasis

Lung

Alveolar Wall

Epithelialization

Skin

Back

Fibroma

Testis

Degeneration, Nos

Interstitial-Cell Tumor

Tunica Vaginalis

Mesothelioma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_042

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Epididymis

Granuloma, Spermatic

Inflammation, Chronic

Kidney

Inflammation, Chronic

Lung

Pneumonia, Chronic Murine

Testis

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_043

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Spleen

Testis

Inflammation, Chronic

Pigmentation, Nos

Degeneration, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Unspecified

Neck

Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_044

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart

Lung

Testis

Inflammation, Chronic

Congestion, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_045

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hypoplasia, Nos
Epididymis		Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Focal
	Islets	Islet-Cell Adenoma
Prostate		Inflammation, Acute
Spleen		Fibrosis
Testis		Degeneration, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified		Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_047

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Lung		Pneumonia, Chronic Murine
Pancreas	Acinus	Atrophy, Nos
	Duct Nos	Inflammation, Proliferative
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Trachea		Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_048

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Cortex Nos

Degeneration, Nos
Fibrosis

Liver
Mammary gland
Pituitary gland
Prostate
Spleen

Pelvis

Inflammation, Chronic
Inflammation, Suppurative
Metamorphosis, Fatty
Lactation
Adenoma, Nos
Inflammation, Suppurative
Atrophy, Nos

Stomach
Testis
Thyroid
Urinary bladder

Submucosa

Pigmentation, Nos
Edema, Nos
Hyperplasia, Interstitial Cell
Hyperplasia, C Cell
Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_049

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Pancreas

Bile Duct

Pituitary gland

Preputial gland

Spleen

Testis

Thyroid

Unspecified

Multiple Organs Nos

Pheochromocytoma

Fibrosis

Inflammation, Chronic

Hyperplasia, Nos

Edema, Interstitial

Hyperplasia, Focal

Adenoma, Nos

Carcinoma, Nos

Fibrosis

Degeneration, Nos

Interstitial-Cell Tumor

Follicular-Cell Carcinoma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_050

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 125 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Nos

Heart

Fibrosis

Kidney

Inflammation, Chronic

Liver

Centrilobular

Necrosis, Nos

Lung

Peliosis Hepatis

Preputial gland

Alveolar/Bronchiolar Adenoma

Spleen

Carcinoma, Nos

Fibrosis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_001

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Degeneration, Nos Leukocytosis, Nos
Eye		Phthisis Bulbi
Heart		Fibrosis
Kidney		Inflammation, Chronic
Lymph node	Mesenteric Lymph Node	Histiocytosis
Mammary gland		Lactation
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Spleen		Pigmentation, Nos
Stomach	Mucosa	Mineralization
Testis		Degeneration, Nos Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Axilla	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_002

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Epididymis

Granuloma, Spermatic

Kidney

Inflammation, Chronic

Pancreas

Acinus

Inflammation, Chronic

Testis

Atrophy, Focal

Thyroid

Degeneration, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

C-Cell Carcinoma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_003

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart

Kidney

Skin

Testis

Face

Unspecified

Multiple Organs Nos

Fibrosis

Inflammation, Chronic

Keratoacanthoma

Degeneration, Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_004

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Intestine Small

Duodenum

Leiomyosarcoma

Kidney

Inflammation, Chronic

Pancreas

Acinus

Atrophy, Focal

Testis

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_005

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Brain		Astrocytoma
Heart		Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Preputial gland		Carcinoma, Nos
		Inflammation, Suppurative
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_006

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart

Intestine Large

Kidney

Liver

Preputial gland

Testis

Large Intestine, Colon

Unspecified

Abdominal Cavity

Fibrosis

Nematodiasis

Inflammation, Chronic

Neoplastic Nodule

Carcinoma, Nos

Degeneration, Nos

Interstitial-Cell Tumor

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_007

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart

Kidney

Spleen

Testis

Thyroid

Papilla

Fibrosis

Inflammation, Chronic

Vesicle

Pigmentation, Nos

Degeneration, Nos

Interstitial-Cell Tumor

C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_008

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart		Fibrosis
Liver	Centrilobular	Necrosis, Nos
Spleen		Hematopoiesis
Testis		Degeneration, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Mesothelioma, Malignant

PRIMARY CAUSE OF DEATH

-

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_009

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Nos

Pheochromocytoma

Heart

Fibrosis

Intestine Small

Mesentery Nos

Periarteritis

Kidney

Inflammation, Chronic

Pancreas

Acinus

Atrophy, Focal

Testis

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_010

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Nos

Heart

Fibrosis

Kidney

Inflammation, Chronic

Lymph node

Cervical Lymph Node Nos

Lymphangiectasis

Pancreas

Acinus

Atrophy, Nos

Skin

Sebaceous Adenocarcinoma

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_011

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Degeneration, Nos

Pheochromocytoma

Heart

Fibrosis

Kidney

Inflammation, Chronic

Pancreas

Islets

Islet-Cell Adenoma

Testis

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_012

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart		Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
		Neoplastic Nodule
Lung	Alveolar Wall	Epithelialization
Lymph node	Cervical Lymph Node Nos	Lymphangiectasis
Pancreas		Edema, Interstitial
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: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_013

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Fibrosis

Kidney

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Nos

Neoplastic Nodule

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Carcinoma

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_014

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Testis

Degeneration, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_015

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Medulla

Hyperplasia, Nos
Fibrosis
Inflammation, Chronic
Tubular-Cell Adenoma

Lymph node
Testis

Cervical Lymph Node Nos

Lymphangiectasis
Degeneration, Nos
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_016

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone marrow

Hypoplasia, Nos

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_017

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Testis

Thyroid

Cortex

Pheochromocytoma

Fibrosis

Cyst, Nos

Inflammation, Chronic

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_018

TRT#: 3

DOSE: 250 PPM

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Kidney

Lung

Testis

Inflammation, Chronic

Hemorrhage

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_019

TRT#: 3

DOSE: 250 PPM

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Heart

Kidney

Liver

Lung

Testis

Fibrosis

Inflammation, Chronic

Focal Cellular Change

Infarct, Focal

Pneumonia, Chronic Murine

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzo(a)pyrene

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_020

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Degeneration, Nos

Kidney

Medulla

Hyperplasia, Nos

Liver

Inflammation, Chronic

Focal Cellular Change

Lung

Bile Duct

Hyperplasia, Nos

Testis

Pneumonia, Chronic Murine

Degeneration, Nos

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

Unspecified

Mediastinum Nos

Periarteritis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_021

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Heart		Fibrosis
Intestine Large	Large Intestine, Colon	Nematodiasis
Kidney	Cortex	Cyst, Nos
		Inflammation, Chronic
Pancreas	Acinus	Atrophy, Focal
		Dilatation, Ducts
	Islets	Hyperplasia, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Cyst, Nos
Testis		Degeneration, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_022

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney
Pancreas
Pituitary gland
Testis

Medulla

Acinus

Hyperplasia, Focal
Fibrosis
Inflammation, Chronic
Atrophy, Focal
Cyst, Nos
Degeneration, Nos
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_023

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Kidney

Degeneration, Nos

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_024

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Kidney

Inflammation, Chronic

Parathyroid gland

Hyperplasia, Nos

Spleen

Fibrosis

Testis

Degeneration, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_025

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Kidney

Inflammation, Chronic

Liver

Bile Duct

Fibrosis

Bile Duct

Hyperplasia, Nos

Testis

Degeneration, Nos

Unspecified

Flank

Interstitial-Cell Tumor

Multiple Organs Nos

Fibroma

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_026

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Nos

Kidney

Inflammation, Chronic

Lymph node

Cervical Lymph Node Nos

Hyperplasia, Lymphoid

Pancreas

Acinus

Atrophy, Focal

Testis

Degeneration, Nos

Interstitial-Cell Tumor

Unspecified

Neck

Abscess, Nos

Back

Keratoacanthoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_027

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Auricular Appendage Nos	Thrombosis, Nos
Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Lung		Thrombosis, Nos
Pancreas	Acinus	Atrophy, Focal
Spleen		Fibrosis
Testis		Degeneration, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_028

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart		Fibrosis
Intestine Large	Large Intestine, Colon	Nematodiasis
Kidney		Inflammation, Chronic
Lung		Hyperplasia, Adenomatous
Pancreas	Acinus	Atrophy, Focal
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_029

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart

Liver

Pancreas

Spleen

Centrilobular

Acinus

Fibrosis

Necrosis, Nos

Atrophy, Focal

Hematopoiesis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_030

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart		Fibrosis
Kidney		Inflammation, Chronic
Lung	Alveolar Wall	Epithelialization
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: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_031

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Angiectasis

Heart

Hyperplasia, Nos

Kidney

Cortex

Fibrosis

Parathyroid gland

Cyst, Nos

Preputial gland

Inflammation, Chronic

Testis

Hyperplasia, Nos

Carcinoma, Nos

Degeneration, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Tunica Vaginalis

Mesothelioma, Nos

Thyroid

C-Cell Adenoma

Unspecified

Neck

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_032

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart		Fibrosis
Kidney		Inflammation, Chronic
Spleen		Atrophy, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Mesothelioma, Malignant

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_033

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney		Inflammation, Chronic
Pancreas	Acinus	Atrophy, Focal
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_034

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Heart

Medulla

Hyperplasia, Nos
Calcification, Nos
Fibrosis

Intestine Small
Liver

Mesentery Nos

Arteriosclerosis, Nos
Necrosis, Coagulative

Parathyroid gland
Preputial gland

Hyperplasia, Nos
Carcinoma, Nos

Stomach
Testis

Mucosa

Calcification, Nos
Degeneration, Nos
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_035

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Nos

Heart

Fibrosis

Kidney

Inflammation, Chronic

Lung

Alveolar Wall

Epithelialization

Hyperplasia, Adenomatous

Pancreas

Acinus

Pneumonia, Chronic Murine

Testis

Atrophy, Focal

Degeneration, Nos

Unspecified

Abdominal Cavity

Interstitial-Cell Tumor

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_036

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Blood vessel	Aorta Nos	Arteriosclerosis, Nos
Heart		Arteriosclerosis, Nos
		Fibrosis
Intestine Small	Mesentery Nos	Arteriosclerosis, Nos
	Mesentery Nos	Periarteritis
Kidney		Calcification, Nos
		Inflammation, Chronic
Lung		Pneumonia, Chronic Murine
Parathyroid gland		Hyperplasia, Nos
Spleen		Pigmentation, Nos
Stomach	Mucosa	Calcification, Nos
Testis		Degeneration, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_037

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart		Fibrosis
Kidney		Inflammation, Chronic
Lymph node		Lymphangiectasis
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Flank	Fibroma
	Back	Inflammation, Suppurative
	Back	Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_038

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Intestine Large

Kidney

Pancreas

Testis

Unspecified

Large Intestine, Colon

Acinus

Multiple Organs Nos

Pheochromocytoma

Fibrosis

Nematodiasis

Inflammation, Chronic

Atrophy, Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_039

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney
Preputial gland
Prostate

Pyelonephritis, Suppurative
Inflammation, Suppurative
Abscess, Nos
Inflammation, Suppurative

Stomach
Testis

Mucosa

Calcification, Nos
Degeneration, Nos
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_040

TRT#: 3

DOSE: 250 PPM

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Testis

Pheochromocytoma

Fibrosis

Inflammation, Chronic

Focal Cellular Change

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_041

TRT#: 3

DOSE: 250 PPM

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Epididymis

Granuloma, Spermatic

Inflammation, Chronic

Kidney

Inflammation, Chronic

Testis

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_042

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Nos

Heart

Fibrosis

Kidney

Inflammation, Chronic

Mammary gland

Fibroadenoma

Pituitary gland

Adenoma, Nos

Preputial gland

Carcinoma, Nos

Testis

Degeneration, Nos

Interstitial-Cell Tumor

Tunica Vaginalis

Mesothelioma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_043

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney
Preputial gland
Testis

Medulla

Hyperplasia, Nos
Fibrosis
Inflammation, Chronic
Carcinoma, Nos
Degeneration, Nos
Interstitial-Cell Tumor
Leukemia, Monocytic

Unspecified

Multiple Organs Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_044

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney
Liver
Pancreas
Testis

Medulla

Hyperplasia, Nos
Inflammation, Chronic
Bile Stasis
Periarteritis
Degeneration, Nos
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzo(a)pyrene

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_045

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart		Fibrosis
Intestine Small	Mesentery Nos	Periarteritis
Kidney		Inflammation, Chronic
Pancreas	Acinus	Atrophy, Focal
		Periarteritis
Testis		Degeneration, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Leukemia, Monocytic
	Mediastinum Nos	Periarteritis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_046

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Degeneration, Nos

Heart

Medulla

Hyperplasia, Nos

Kidney

Fibrosis

Liver

Centrilobular

Inflammation, Chronic

Lung

Necrosis, Nos

Spleen

Leukocytosis, Nos

Stomach

Hematopoiesis

Testis

Amyloidosis

Degeneration, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_047

TRT#: 3

DOSE: 250 PPM

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Heart

Kidney

Lymph node

Preputial gland

Testis

Cervical Lymph Node Nos

Fibrosis

Inflammation, Chronic

Lymphangiectasis

Carcinoma, Nos

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_048

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Nos

Heart

Fibrosis

Kidney

Inflammation, Chronic

Lymph node

Mesenteric Lymph Node

Lymphangiectasis

Pancreas

Periarteritis

Testis

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_049

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 250 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Kidney

Inflammation, Chronic

Lung

Pneumonia, Chronic Murine

Pituitary gland

Cyst, Nos

Testis

Degeneration, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Monocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50011

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzoin

CAS Number: 119-53-9

Date Report Requested: 10/26/2014

Time Report Requested: 12:27:51

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_050

TRT#: 3

DOSE: 250 PPM

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Testis

Pheochromocytoma

Fibrosis

Inflammation, Chronic

Hepatocellular Carcinoma

Degeneration, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****