

**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:** 11:03:43

**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:** Female

**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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_001

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Moribund Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Brain		Compression, Nos
Kidney		Inflammation, Chronic
Mammary gland		Galactocele
Pituitary gland		Adenoma, Nos
Spleen		Atrophy, Nos
		Pigmentation, Nos
Unspecified	Abdominal Cavity	Necrosis, Fat

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**PRIMARY CAUSE OF DEATH**

-

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\* 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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_002

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Liver

Mammary gland

Pancreas

Pituitary gland

Thyroid

Uterus

Acinus

Endometrial Gland

Pheochromocytoma

Focal Cellular Change

Galactocele

Atrophy, Focal

Hyperplasia, Chromophobe Cell

Hyperplasia, C Cell

Cyst, Nos

Endometrial Stromal Polyp

Hydrometra

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PRIMARY CAUSE OF DEATH

-

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\* 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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_003

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Pituitary gland

Uterus

Hyperplasia, Chromophobe Cell

Endometrial Stromal Polyp

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**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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_004

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Bone marrow  
Heart

Cortex Nos

Degeneration, Nos  
Hypoplasia, Nos  
Endocarditis, Bacterial  
Thrombosis, Nos

Liver

Centrilobular

Necrosis, Nos  
Regeneration, Nodular  
Alveolar/Bronchiolar Adenoma

Lung

Mammary gland

Lactation

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

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**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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_005

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Liver		Focal Cellular Change
Lung		Pneumonia, Chronic Murine
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland		Adenoma, Nos
Spleen		Pigmentation, Nos

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**PRIMARY CAUSE OF DEATH**

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\* 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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_006

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

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

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

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**OBSERVATIONS**

Liver		Metamorphosis, Fatty
	Centrilobular	Necrosis, Nos
Lung		Pneumonia, Chronic Murine
Trachea		Inflammation, Nos
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

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**PRIMARY CAUSE OF DEATH**

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\* 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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_007

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Intestine Small

Lymph node

Mammary gland

Pituitary gland

Spleen

Thyroid

Peyers Patch

Mesenteric Lymph Node

Hyperplasia, Lymphoid

Hyperplasia, Lymphoid

Galactocele

Hyperplasia, Chromophobe Cell

Pigmentation, Nos

Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

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\* 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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_008

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Focal
Kidney		Mineralization
Liver		Focal Cellular Change
Pituitary gland		Cyst, Nos
Thyroid		Fibrosis
		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

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\* 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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_009

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Liver

Angiectasis

Pituitary gland

Infarct, Nos

Hyperplasia, Chromophobe Cell

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**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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_010

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Nos

Blood vessel

Aorta Nos

Inflammation, Nos

Intestine Large

Large Intestine, Colon

Nematodiasis

Liver

Focal Cellular Change

Lung

Alveolar/Bronchiolar Adenoma

Mammary gland

Hemorrhage

Pituitary gland

Lactation

Spleen

Cyst, Nos

Hemorrhage

Pigmentation, Nos

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**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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_011

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

**SEX:** Female  
**DISP:** Scheduled Sacrifice

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

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**OBSERVATIONS**

Heart		Fibrosis
Intestine Large	Large Intestine, Colon	Nematodiasis
Lung		Alveolar/Bronchiolar Adenoma
Mammary gland		Lactation
Pituitary gland		Adenoma, Nos
Preputial gland		Carcinoma, Nos
		Inflammation, Suppurative
Uterus	Endometrial Gland	Cyst, Nos
		Hematometra

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**PRIMARY CAUSE OF DEATH**

-

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\* 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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_012

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Heart  
Lung  
Mammary gland

Cortex Nos

Degeneration, Nos  
Fibrosis  
Sarcoma, Nos, Metastatic  
Fibroadenoma  
Galactocele

Preputial gland  
Skin

Nose

Hyperplasia, Nos  
Inflammation, Necrotizing

Nose

Ulcer, Nos

Thyroid

Hyperplasia, C Cell

Unspecified

Neck

Sarcoma, Nos

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**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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_013

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Natural Death

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Brain

Kidney

Lung

Mammary gland

Pituitary gland

Unspecified

Abdominal Cavity

Compression, Nos

Congestion, Nos

Congestion, Nos

Fibroadenoma

Galactocele

Lactation

Adenoma, Nos

Angiectasis

Necrosis, Fat

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**PRIMARY CAUSE OF DEATH**

-

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\* 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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_014

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Kidney

Thyroid

Inflammation, Chronic

C-Cell Carcinoma

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**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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_015

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

**SEX:** Female  
**DISP:** Scheduled Sacrifice

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

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**OBSERVATIONS**

Adrenal gland  
Liver  
Mammary gland  
Pancreas  
Pituitary gland  
  
Stomach

Cortex Nos

Acinus

Degeneration, Nos  
Metamorphosis, Fatty  
Lactation  
Atrophy, Focal  
Adenoma, Nos  
Hyperplasia, Chromophobe Cell  
Acanthosis  
Hyperkeratosis  
Inflammation, Acute  
Ulcer, Nos

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**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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_016

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

**SEX:** Female  
**DISP:** Scheduled Sacrifice

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

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**OBSERVATIONS**

Heart  
Intestine Large  
Kidney  
Mammary gland

Large Intestine, Colon

Pancreas  
Pituitary gland  
Thyroid  
Uterus

Acinus

Fibrosis  
Nematodiasis  
Mineralization  
Galactocele  
Hyperplasia, Nos  
Atrophy, Focal  
Adenoma, Nos  
C-Cell Adenoma  
Endometrial Stromal Polyp

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**PRIMARY CAUSE OF DEATH**

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\* 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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_017

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Nos

Eye

Tarsal Gland

Cyst, Nos

Harderian gland

Hardarian Gland

Adenoma, Nos

Mammary gland

Dilatation, Ducts

Fibroadenoma

Pituitary gland

Cyst, Multiple

Preputial gland

Cyst, Nos

Uterus

Adenocarcinoma, Nos

Endometrium

Inflammation, Suppurative

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**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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_018

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Heart

Kidney

Mammary gland

Pancreas

Acinus

Fibrosis

Inflammation, Chronic

Fibroadenoma

Galactocele

Atrophy, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* 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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_019

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Liver

Centrilobular

Necrosis, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* 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:** 11:03:43

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

**Lab:** NA

**ANIMAL ID:** 1\_020

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Blood vessel  
Eye

Cortex Nos  
Aorta Nos  
Cornea  
Tunica Vasculosa

Degeneration, Nos  
Inflammation, Nos  
Inflammation, Suppurative  
Inflammation, Suppurative  
Pus

Harderian gland  
Kidney  
Lymph node

Cornea  
Hardarian Gland

Synechia, Anterior  
Ulcer, Nos  
Inflammation, Chronic  
Inflammation, Chronic  
Histiocytosis

Mammary gland

Mesenteric Lymph Node  
Cervical Lymph Node Nos

Hyperplasia, Lymphoid  
Galactocele  
Lactation

Pituitary gland  
Salivary gland  
Unspecified

Mediastinum Nos

Adenoma, Nos  
Dilatation, Ducts  
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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_021

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Mammary gland

Fibroadenoma

Galactocele

Lactation

Pituitary gland

Adenoma, Nos

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**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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_022

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Liver

Mammary gland

Spleen

Unspecified

Chest

Head

Angiectasis

Lactation

Hematopoiesis

Fibroma

Sarcoma, Nos

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**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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_023

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Liver		Focal Cellular Change
Pancreas	Acinus	Atrophy, Focal
Pituitary gland		Adenoma, Nos
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

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**PRIMARY CAUSE OF DEATH**

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\* 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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_024

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

**SEX:** Female  
**DISP:** Scheduled Sacrifice

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

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**OBSERVATIONS**

Adrenal gland  
Mammary gland  
Pituitary gland  
Skin  
  
Unspecified  
  
Uterus

Cortex Nos  
  
  
Flank  
Flank  
Abdominal Cavity

Degeneration, Nos  
Galactocele  
Hyperplasia, Chromophobe Cell  
Inflammation, Suppurative  
Ulcer, Nos  
Fibroma  
Necrosis, Fat  
Endometrial Stromal Polyp

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**PRIMARY CAUSE OF DEATH**

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\* 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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_025

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Heart

Liver

Mammary gland

Fibrosis

Focal Cellular Change

Lactation

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**PRIMARY CAUSE OF DEATH**

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\* 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:** 11:03:43

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

**Lab:** NA

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**ANIMAL ID:** 1\_026

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart		Fibrosis
Intestine Large	Large Intestine, Colon	Nematodiasis
Liver		Focal Cellular Change
Mammary gland		Lactation
Pituitary gland		Adenoma, Nos
Uterus		Endometrial Stromal Polyp

---

**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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_027

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Tubule

Pigmentation, Nos

Liver

Bile Duct

Hyperplasia, Nos

Mammary gland

Lactation

Pituitary gland

Adenoma, 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_028

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Liver	Focal Cellular Change
Mammary gland	Fibroadenoma
	Galactocele
	Lactation
Uterus	Endometrial Stromal Polyp
	Hydrometra

---

**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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_029

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

**SEX:** Female  
**DISP:** Scheduled Sacrifice

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

---

**OBSERVATIONS**

Heart		Fibrosis
Liver	Bile Duct	Hyperplasia, Nos
Mammary gland		Lactation
Pancreas	Acinus	Hypertrophy, Focal
Unspecified	Abdominal Cavity	Necrosis, Fat
Uterus		Endometrial Stromal Polyp

---

**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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_030

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Nos

Heart

Fibrosis

Mammary gland

Lactation

Pituitary gland

Adenoma, Nos

Spleen

Pigmentation, Nos

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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_031

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver  
Mammary gland  
Unspecified

Bile Duct  
Multiple Organs Nos

Hyperplasia, Nos  
Lactation  
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:** Benzoin

**CAS Number:** 119-53-9

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

**Time Report Requested:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_032

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Brain

Mammary gland

Pituitary gland

Spleen

Compression, Nos

Lactation

Carcinoma, Nos

Pigmentation, 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_033

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Nos

Lung

Pneumonia, Chronic Murine

Mammary gland

Fibroadenoma

Galactocele

Lactation

Pituitary 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_034

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

**SEX:** Female  
**DISP:** Scheduled Sacrifice

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

---

**OBSERVATIONS**

Liver	Bile Duct	Hyperplasia, Nos
Lung		Pneumonia, Chronic Murine
Lymph node	Cervical Lymph Node Nos	Pigmentation, Nos
Mammary gland		Lactation
Pituitary gland		Cyst, Nos
Thyroid		C-Cell Adenoma
Uterus		Endometrial Stromal Polyp

---

**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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_035

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Nos

Heart

Fibrosis

Lung

Pneumonia, Chronic Murine

Mammary gland

Fibroadenoma

Pituitary gland

Galactocele

Adenoma, 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_036

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Nos

Liver

Bile Duct

Hyperplasia, Nos

Lung

Pneumonia, Chronic Murine

Mammary gland

Lactation

Pituitary gland

Hyperplasia, Chromophobe Cell

Thyroid

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

Uterus

Endometrial Stromal Polyp

Endometrium

Hyperplasia, Cystic

Endometrium

Infarct, 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_037

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver		Focal Cellular Change
Lung		Hemorrhage
Mammary gland		Lactation
Pancreas	Acinus	Atrophy, Focal
	Islets	Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Unspecified	Multiple Organs Nos	Leukemia, Monocytic
Uterus		Hydrometra

---

**PRIMARY CAUSE OF DEATH**

-

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\* 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_038

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Liver

Pituitary gland

Thyroid

Pheochromocytoma

Focal Cellular Change

Adenoma, Nos

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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_039

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Heart

Liver

Lung

Mammary gland

Thyroid

Fibrosis

Focal Cellular Change

Pneumonia, Chronic Murine

Lactation

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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_040

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Intestine Large

Liver

Lung

Pancreas

Pituitary gland

Large Intestine, Colon

Nematodiasis

Focal Cellular Change

Pneumonia, Chronic Murine

Atrophy, Focal

Adenoma, 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_041

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Natural Death

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Pituitary gland

Unspecified

Multiple Organs Nos

Adenoma, 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_042

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Intestine Large

Kidney

Liver

Pituitary gland

Uterus

Large Intestine, Colon

Nematodiasis

Inflammation, Chronic

Focal Cellular Change

Adenoma, Nos

Endometrial Stromal Polyp

---

**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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_043

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Nos

Kidney

Inflammation, Chronic

Mammary gland

Lactation

Pituitary gland

Adenoma, 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_044

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Kidney

Mammary gland

Pituitary gland

Thyroid

Unspecified

Cortex

Multiple Organs Nos

Necrosis, Cortical

Cyst, Nos

Lactation

Adenoma, Nos

C-Cell Adenoma

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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_046

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Lung

Mammary gland

Pituitary gland

Hemorrhage

Adenocarcinoma, Nos

Adenoma, Nos

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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_047

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Lung

Hemorrhage

Pneumonia, Chronic Murine

Mammary gland

Fibroadenoma

---

**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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_048

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

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

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

---

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Degeneration, Nos
Heart		Fibrosis
Kidney		Inflammation, Chronic
Liver		Congestion, Nos
		Focal Cellular Change
Lung		Congestion, Nos
Mammary gland		Adenoma, Nos
		Galactocele
		Lactation
Pancreas	Islets	Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Spleen		Pigmentation, 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_049

**TRT#:** 1

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Liver

Focal Cellular Change

---

**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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 1\_050

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Spleen

Stomach

Unspecified

Neck

Atrophy, Nos

Erosion

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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_001

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Nos

Uterus

Endometrial Stromal Polyp

---

**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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_002

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney  
Mammary gland  
Pituitary gland  
Stomach

Submucosa

Inflammation, Chronic  
Lactation  
Adenoma, Nos  
Acanthosis  
Edema, Nos  
Hyperkeratosis  
Ulcer, 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_003

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver		Focal Cellular Change
Mammary gland		Lactation
Ovary		Cyst, Parovarian
Pituitary gland		Cyst, Nos
Uterus	Endometrial 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_004

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Small  
Kidney  
Mammary gland

Jejunum

Mucinous Adenocarcinoma  
Inflammation, Chronic  
Fibroadenoma  
Galactocele  
Lactation  
C-Cell Carcinoma  
Necrosis, Fat

Thyroid  
Unspecified

Abdominal Cavity

---

**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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_005

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver

Bile Stasis

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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_006

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart  
Kidney  
Mammary gland

Fibrosis  
Inflammation, Chronic  
Fibroadenoma  
Galactocele  
Lactation  
Cyst, Nos  
Hyperplasia, Chromophobe Cell

Pituitary gland

---

**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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_007

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Heart  
Kidney

Cortex Nos

Degeneration, Nos  
Fibrosis  
Inflammation, Chronic  
Mixed Tumor, Benign

Liver  
Mammary gland  
Pancreas  
Pituitary gland

Acinus

Focal Cellular Change  
Lactation  
Atrophy, Nos  
Hyperplasia, Chromophobe 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_008

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Mammary gland		Lactation
Pituitary gland		Adenoma, 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_009

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart		Calcification, Focal
Kidney		Arteriosclerosis, Nos
		Calcification, Focal
Liver		Congestion, Passive
Lung		Inflammation, Acute Fibrinous
Stomach	Mucosa	Calcification, Nos
Unspecified	Mediastinum Nos	Arteriosclerosis, 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_010

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart

Liver

Mammary gland

Ovary

Unspecified

Uterus

Multiple Organs Nos

Abdominal Cavity

Fibrosis

Metamorphosis, Fatty

Lactation

Cyst, Hemorrhagic

Leukemia, Monocytic

Necrosis, Fat

Hydrometra

---

**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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_011

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Lymph node

Bronchial Lymph Node

Hyperplasia, Lymphoid

Cervical Lymph Node Nos

Hyperplasia, Lymphoid

Mammary gland

Lactation

---

**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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_012

**TRT#:** 2

**DOSE:** 250 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Brain	Compression, Nos
	Hydrocephalus, Nos
Kidney	Inflammation, Chronic
Mammary gland	Lactation
Pituitary gland	Adenoma, 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_013

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver

Focal Cellular Change

Mammary gland

Fibroadenoma

---

**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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_014

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Pituitary gland

Adenoma, Nos

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

---

**PRIMARY CAUSE OF DEATH**

-

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\* 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_015

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos Metamorphosis, Fatty
Lung		Leukocytosis, Nos
Pituitary gland		Adenoma, Nos
Skin	Head	Squamous Cell Carcinoma
Uterus		Endometrial Stromal Polyp

---

**PRIMARY CAUSE OF DEATH**

-

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\* 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_016

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Spleen

Thyroid

Pigmentation, Nos

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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_017

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Right Adrenal Gland

Pheochromocytoma

Left Adrenal Gland

Pheochromocytoma, Malignant

Heart

Fibrosis

Kidney

Inflammation, Chronic

Mammary gland

Inflammation, Suppurative

Pituitary gland

Adenoma, 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_018

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart		Fibrosis
Kidney		Mineralization
		Necrosis, Medullary
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Mammary gland		Lactation
Ovary		Cyst, Parovarian
Pituitary gland		Adenoma, Nos
Spleen		Pigmentation, Nos
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

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\* 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_019

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Blood vessel  
Intestine Large  
Liver

Coronary Artery Nos  
Large Intestine, Colon

Bile Duct

Mammary gland

Periarteritis  
Nematodiasis  
Focal Cellular Change  
Hyperplasia, Nos  
Adenocarcinoma, Nos  
Fibroadenoma  
Galactocele  
Pigmentation, Nos  
Hyperplasia, C Cell  
Endometrial Stromal Polyp

Spleen  
Thyroid  
Uterus

---

**PRIMARY CAUSE OF DEATH**

-

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\* 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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_021

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Mammary gland

Galactocele

Pituitary gland

Lactation

Unspecified

Multiple Organs Nos

Adenoma, Nos

Uterus

Leukemia, Monocytic

Cyst, Hemorrhagic

---

**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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_022

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart

Liver

Mammary gland

Bile Duct

Fibrosis

Focal Cellular Change

Hyperplasia, Nos

Lactation

---

**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:** 11:03:43

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

**Lab:** NA

---

**ANIMAL ID:** 2\_023

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Nos

Clitoral gland

Adenoma, Nos

Heart

Fibrosis

Liver

Focal Cellular Change

Mammary gland

Lactation

Pituitary gland

Hyperplasia, Chromophobe Cell

Spleen

Pigmentation, Nos

Uterus

Endometrial Stromal Polyp

Hydrometra

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_024

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart		Fibrosis
Liver		Focal Cellular Change
Ovary		Granulosa-Cell Tumor
Pancreas	Acinus	Atrophy, Nos
		Inflammation, Chronic
Pituitary gland		Hyperplasia, Chromophobe 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_025

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Nos

Clitoral gland

Adenoma, Nos

Liver

Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Mammary gland

Fibroadenoma

Pituitary 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_026

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Stomach

Uterus

Ganglioneuroma

Inflammation, Suppurative

Erosion

Endometrial Stromal Polyp

Endometrium

Infarct, 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_027

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart

Fibrosis

Uterus

Inflammation, Focal

Endometrial Stromal Polyp

Hydrometra

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_028

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart

Liver

Lung

Pituitary gland

Spleen

Uterus

Alveolar Wall

Fibrosis

Focal Cellular Change

Epithelialization

Adenoma, Nos

Pigmentation, Nos

Hydrometra

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_029

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Degeneration, Nos
Heart	Auricular Appendage Nos	Thrombosis, Nos
Kidney		Embolus, Septic
Liver	Centrilobular	Degeneration, Nos
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Lung		Pneumonia, Chronic Murine
Mammary gland		Lactation
Pancreas	Acinus	Atrophy, Nos
		Edema, Interstitial
Spleen	Capsule	Inflammation, With Fibrosis
Stomach	Submucosa	Edema, Nos
	Mucosa	Mineralization
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

---

**PRIMARY CAUSE OF DEATH**

-

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\* 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_030

**TRT#:** 2

**DOSE:** 250 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Heart

Kidney

Liver

Mammary gland

Ovary

Pituitary gland

Uterus

Fibrosis

Inflammation, Chronic

Focal Cellular Change

Lactation

Cyst, Parovarian

Cyst, Nos

Hydrometra

---

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_031

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Liver

Bile Duct

Hyperplasia, Nos

Metamorphosis, Fatty

Spleen

Hematopoiesis

Unspecified

Head

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_032

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart

Fibrosis

Liver

Inflammation, Chronic

Mammary gland

Focal Cellular Change

Fibroadenoma

Pancreas

Acinus

Lactation

Pituitary gland

Atrophy, Focal

Thyroid

Adenoma, Nos

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_033

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart

Inflammation, Chronic

Kidney

Inflammation, Chronic

Mammary gland

Fibroadenoma

Galactocele

Lactation

Pituitary gland

Adenoma, Nos

Thyroid

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_034

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart		Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Mammary gland		Lactation
Pituitary gland		Hyperplasia, Chromophobe Cell
Uterus		Endometrial Stromal Polyp
		Hydrometra

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_035

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart

Kidney

Liver

Lung

Pituitary gland

Fibrosis

Inflammation, Chronic

Focal Cellular Change

Pneumonia, Chronic Murine

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_036

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney

Mineralization

Liver

Hematopoiesis

Lung

Thrombosis, Nos

Mammary gland

Lactation

Spleen

Hematopoiesis

Unspecified

Neck

Hemangiopericytoma, Malignant

Uterus

Endometrial Stromal Polyp

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_037

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney

Lipoidosis

Uterus

Endometrial Stromal Polyp

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_038

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Mammary gland

Fibroadenoma

Galactocele

Lactation

Pituitary gland

Adenoma, 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_039

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Brain		Hydrocephalus, Internal
Liver	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Mammary gland		Lactation
Pituitary gland		Adenoma, Nos
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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_040

**TRT#:** 2

**DOSE:** 250 PPM

**SEX:** Female

**DISP:** Natural Death

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Bone marrow

Brain

Kidney

Mammary gland

Pituitary gland

Skin

Spleen

Stomach

Hypoplasia, Nos

Carcinoma, Nos, Invasive

Hydrocephalus, Internal

Inflammation, Chronic

Mineralization

Fibroadenoma

Galactocele

Lactation

Carcinoma, Nos

Inflammation, Acute

Ulcer, Nos

Pigmentation, Nos

Ulcer, Focal

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_041

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Cortical Adenoma

Heart

Degeneration, Nos

Kidney

Inflammation, Chronic

Liver

Inflammation, Chronic

Mammary gland

Focal Cellular Change

Pituitary gland

Lactation

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_042

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Mineralization

Liver

Focal Cellular Change

Mammary gland

Fibroadenoma

Pituitary gland

Adenoma, Nos

Thyroid

Hyperplasia, C Cell

Uterus

Endometrial Stromal Polyp

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_043

**TRT#:** 2

**DOSE:** 250 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Mammary gland

Pituitary gland

Cortical Adenoma

Lactation

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_044

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Large

Large Intestine, Colon

Nematodiasis

Liver

Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Mammary gland

Fibroadenoma

Lactation

Pancreas

Acinus

Atrophy, Diffuse

Duct Nos

Inflammation, Proliferative

Pituitary gland

Cyst, Nos

Unspecified

Multiple Organs Nos

Hyperplasia, Chromophobe Cell

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_045

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Mammary gland

Lactation

Skin

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_046

**TRT#:** 2

**DOSE:** 250 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Liver	Focal Cellular Change
Mammary gland	Fibroadenoma
Pituitary gland	Hyperplasia, Chromophobe Cell
Thyroid	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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_047

**TRT#:** 2

**DOSE:** 250 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Heart

Liver

Mammary gland

Pituitary gland

Fibrosis

Focal Cellular Change

Lactation

Adenoma, 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_048

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart

Liver

Mammary gland

Uterus

Centrilobular

Fibrosis

Necrosis, Nos

Lactation

Cyst, Hemorrhagic

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_049

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver		Focal Cellular Change
Mammary gland		Fibroadenoma
Uterus	Endometrial 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 2\_050

**TRT#:** 2

**DOSE:** 250 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Heart

Kidney

Pituitary gland

Spleen

Fibrosis

Inflammation, Chronic

Cyst, Nos

Pigmentation, 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_001

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Nos

Kidney

Inflammation, Chronic

Liver

Bile Duct

Cyst, Nos

Mammary gland

Lactation

Pancreas

Acinus

Atrophy, Focal

Pituitary gland

Adenoma, Nos

Thyroid

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_002

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Brain		Hydrocephalus, Internal
Kidney		Inflammation, Chronic
Mammary gland		Lactation
Pancreas	Acinus	Atrophy, Focal
Pituitary gland		Adenoma, Nos
Spleen		Pigmentation, 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_003

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Kidney

Liver

Pituitary gland

Spleen

Thyroid

Inflammation, Chronic

Focal Cellular Change

Cyst, Nos

Pigmentation, Nos

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_004

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Liver

Mammary gland

Pituitary gland

Spleen

Uterus

Cortex Nos

Degeneration, Nos

Focal Cellular Change

Fibroadenoma

Angiectasis

Hyperplasia, Chromophobe Cell

Pigmentation, Nos

Endometrial Stromal Polyp

---

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_005

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Clitoral gland

Mammary gland

Carcinoma, Nos

Lactation

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_006

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Liver

Thyroid

Unspecified

Multiple Organs Nos

Mineralization

Focal Cellular Change

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_007

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Heart

Spleen

Fibrosis

Pigmentation, 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_008

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Clitoral gland

Heart

Kidney

Liver

Lung

Mammary gland

Pituitary gland

Adenoma, Nos

Fibrosis

Inflammation, Chronic

Focal Cellular Change

Hemorrhage

Hyperplasia, Adenomatous

Lactation

Adenoma, 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_009

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic Mineralization
Mammary gland		Lactation
Pancreas	Acinus	Atrophy, Focal
Pituitary gland		Adenoma, Nos
Uterus	Endometrial 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_010

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Brain	Hydrocephalus, Internal
Lung	Carcinoma, Nos, Metastatic
Pituitary gland	Carcinoma, Nos
Spleen	Pigmentation, 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_011

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Heart	Inflammation, Chronic
Lung	Pneumonia, Chronic Murine
Mammary gland	Fibroadenoma
	Galactocele
	Lactation
Pituitary gland	Adenoma, 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_012

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Brain	Hydrocephalus, Internal
Kidney	Inflammation, Chronic
Liver	Focal Cellular Change
Mammary gland	Fibroadenoma
	Galactocele
Pituitary gland	Adenoma, 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_013

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Liver	Focal Cellular Change
Lung	Pneumonia, Chronic Murine
Mammary gland	Fibroadenoma
Pituitary gland	Adenoma, Nos
Uterus	Hydrometra

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_014

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Mammary gland

Spleen

Unspecified

Head

Lactation

Atrophy, Nos

Carcinoma, 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_015

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart

Liver

Mammary gland

Fibrosis

Focal Cellular Change

Lactation

---

**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:** 11:03:44

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

**Lab:** NA

**ANIMAL ID:** 3\_016

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart		Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Mammary gland		Fibroadenoma
		Galactocele
		Lactation
Pancreas	Acinus	Atrophy, Focal
Pituitary gland		Adenoma, Nos
Spleen		Pigmentation, Nos
Uterus		Endometrial Stromal Polyp
	Endometrium	Hyperplasia, Cystic

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_017

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Kidney  
Liver  
Mammary gland

Inflammation, Chronic  
Focal Cellular Change  
Fibroadenoma  
Galactocele  
Lactation  
Adenoma, Nos  
Pigmentation, Nos

Pituitary gland  
Spleen

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_018

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Natural Death

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Bone marrow  
Brain  
  
Kidney  
Pituitary gland  
  
Spleen  
Urinary bladder

Hypoplasia, Nos  
Compression, Nos  
Hydrocephalus, Internal  
Inflammation, Chronic  
Adenoma, Nos  
Angiectasis  
Pigmentation, Nos  
Crystals, 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_019

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Brain	Compression, Nos Hydrocephalus, Internal
Heart	Fibrosis
Kidney	Inflammation, Chronic Mineralization
Mammary gland	Lactation
Pituitary gland	Adenoma, Nos
Spleen	Pigmentation, 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_020

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Heart

Liver

Mammary gland

Pituitary gland

Fibrosis

Focal Cellular Change

Lactation

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_021

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Liver	Focal Cellular Change
Mammary gland	Lactation
Uterus	Hydrometra

---

**PRIMARY CAUSE OF DEATH**

-

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\* 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_022

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney  
Mammary gland

Pituitary gland

Spleen  
Thyroid  
Uterus

Inflammation, Chronic  
Fibroadenoma  
Lactation  
Cyst, Nos  
Hyperplasia, Chromophobe Cell  
Pigmentation, Nos  
Hyperplasia, C Cell  
Hydrometra

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_023

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Kidney  
Mammary gland  
Pituitary gland  
Stomach

Inflammation, Chronic  
Lactation  
Adenoma, Nos  
Acanthosis  
Hyperkeratosis  
Inflammation, Nos  
Hyperplasia, Focal

Thyroid

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_024

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Nos

Heart

Inflammation, Chronic

Kidney

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Nos

Mammary gland

Lactation

Ovary

Cyst, Parovarian

Pituitary gland

Cyst, Nos

Spleen

Pigmentation, 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_025

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Kidney

Liver

Lung

Mammary gland

Inflammation, Chronic

Focal Cellular Change

Hyperplasia, Adenomatous

Fibroadenoma

Galactocele

Lactation

Pituitary gland

Thyroid

Adenoma, Nos

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_026

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Eye

Retina

Atrophy, Nos

Cataract

Kidney

Inflammation, Chronic

Lung

Hyperplasia, Adenomatous

Mammary gland

Fibroadenoma

Galactocele

Lactation

Pituitary gland

Adenoma, 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_027

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Nos

Brain

Compression, Nos

Kidney

Inflammation, Chronic

Mammary gland

Lactation

Pituitary gland

Adenoma, 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_028

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Kidney

Liver

Mammary gland

Inflammation, Chronic

Focal Cellular Change

Lactation

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_029

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Brain		Compression, Nos
		Hydrocephalus, Internal
Kidney		Inflammation, Chronic
Lung		Hyperplasia, Adenomatous
Mammary gland		Lactation
Pituitary gland		Adenoma, Nos
Unspecified	Groin	Fibrosarcoma
	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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_030

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Mammary gland

Lactation

Pituitary gland

Cyst, Nos

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_031

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Bone	Sternum	Ectopia
Heart		Fibrosis
Kidney		Inflammation, Chronic
		Mineralization
Mammary gland		Lactation
Uterus	Endometrial 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_032

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Bone marrow

Eye

Retina

Hypoplasia, Nos

Atrophy, Nos

Cataract

Synechia, Anterior

Synechia, Posterior

Liver

Centrilobular

Necrosis, Nos

Mammary gland

Lactation

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_034

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Liver

Unspecified

Uterus

Axilla

Inflammation, Chronic

Focal Cellular Change

Fibroma

Endometrial Stromal Polyp

Hydrometra

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_035

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Brain

Pituitary gland

Angiectasis

Astrocytoma

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_036

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Esophagus

Inflammation, Suppurative

Salivary gland

Inflammation, Suppurative

Trachea

Inflammation, Suppurative

Unspecified

Neck

Inflammation, Suppurative

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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_037

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Kidney

Liver

Mammary gland

Pancreas

Pituitary gland

Uterus

Acinus

Angiectasis

Inflammation, Chronic

Focal Cellular Change

Lactation

Atrophy, Focal

Adenoma, Nos

Endometrial Stromal Polyp

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_038

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Kidney

Lung

Mammary gland

Pituitary gland

Uterus

Inflammation, Chronic

Hyperplasia, Adenomatous

Fibroadenoma

Adenoma, Nos

Endometrial Stromal Polyp

Hydrometra

Hyperplasia, Cystic

Endometrium

---

**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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_039

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Heart

Liver

Mammary gland

Pituitary gland

Spleen

Thyroid

Fibrosis

Focal Cellular Change

Lactation

Angiectasis

Pigmentation, Nos

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:** 11:03:44

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

**Lab:** NA

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**ANIMAL ID:** 3\_040

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Lipoidosis

Kidney

Inflammation, Chronic

Lung

Hemorrhage

Mammary gland

Lactation

Thyroid

Hyperplasia, C Cell

Uterus

Endometrium

Hyperplasia, Cystic

---

**PRIMARY CAUSE OF DEATH**

-

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\* 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_041

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Nos

Bone marrow

Hypoplasia, Nos

Kidney

Inflammation, Chronic

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:** 11:03:44

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

**Lab:** NA

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**ANIMAL ID:** 3\_042

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney		Inflammation, Chronic
Lung	Alveolar Wall	Epithelialization
Mammary gland		Fibroadenoma
Pancreas	Acinus	Atrophy, Focal

---

**PRIMARY CAUSE OF DEATH**

-

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\* 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:** 11:03:44

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

**Lab:** NA

---

**ANIMAL ID:** 3\_043

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Liver

Cortex Nos

Degeneration, Nos  
Bile Stasis  
Metamorphosis, Fatty

Mammary gland  
Pituitary gland

Lactation  
Angiectasis  
Hyperplasia, Chromophobe Cell

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

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**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:** 11:03:44

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

**Lab:** NA

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**ANIMAL ID:** 3\_044

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney

Inflammation, Chronic

Mammary gland

Lactation

Pancreas

Acinus

Necrosis, Diffuse

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**PRIMARY CAUSE OF DEATH**

-

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\* 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:** 11:03:44

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

**Lab:** NA

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**ANIMAL ID:** 3\_045

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Thyroid

C-Cell Adenoma

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**PRIMARY CAUSE OF DEATH**

-

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\* 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:** 11:03:44

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

**Lab:** NA

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**ANIMAL ID:** 3\_046

**TRT#:** 3

**DOSE:** 500 PPM

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Kidney

Mammary gland

Pituitary gland

Inflammation, Chronic

Lactation

Adenoma, Nos

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**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:** 11:03:44

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

**Lab:** NA

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**ANIMAL ID:** 3\_047

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Mammary gland

Pituitary gland

Unspecified

Groin

Lactation

Adenoma, Nos

Fibroma

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**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:** 11:03:44

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

**Lab:** NA

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**ANIMAL ID:** 3\_048

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Cortical Adenoma

Liver

Degeneration, Nos

Mammary gland

Metamorphosis, Fatty

Unspecified

Lactation

Multiple Organs Nos

Leukemia, Monocytic

Abdominal Cavity

Necrosis, Fat

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**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:** 11:03:44

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

**Lab:** NA

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**ANIMAL ID:** 3\_049

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Degeneration, Nos

Liver

Focal Cellular Change

Lung

Hyperplasia, Adenomatous

Mammary gland

Fibroadenoma

Galactocele

Pituitary gland

Lactation

Cyst, Nos

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**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:** 11:03:44

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

**Lab:** NA

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**ANIMAL ID:** 3\_050

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 500 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney

Inflammation, Chronic

Mammary gland

Lactation

Pituitary gland

Adenoma, Nos

Unspecified

Multiple Organs Nos

Leukemia, Monocytic

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**PRIMARY CAUSE OF DEATH**

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**\*\* END OF REPORT \*\***