

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

F1_Rev.2_R2 Untreated + High Dose

NTP Study Number: C20316
Lock Date: 03/06/2006
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include 001 UNTREATED Include 002 UNTREATED Include 013 100 %
Include 014 100 %
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: 11/26/2007

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF CEDARWOOD OIL

MALE RATS

Organ

Adrenal Cortex
Bone Marrow
Kidney
Kidney: Renal Tubule

Preputial Gland
Skin: Hair Follicle, Site of Application
Skin: Sebaceous Gland, Site of Application
Skin: Site of Application - Dermis
Skin: Site of Application - Epidermis

Skin: Site of Application

FEMALE RATS

Organ

Bone Marrow
Liver
Pancreas
Skin: Hair Follicle, Site of Application
Skin: Sebaceous Gland, Site of Application
Skin: Site of Application - Dermis
Skin: Site of Application - Epidermis

Skin: Site of Application
Urinary Bladder

Morphology

Angiectasis
Hyperplasia
Accumulation, Hyaline Droplet
Casts Granular
Degeneration
Inflammation Chronic Focal
Hyperplasia
Hyperplasia
Fibrosis
Hyperkeratosis
Hyperplasia
Ulcer
Inflammation Chronic

Morphology

Hyperplasia
Inflammation
Infiltration Cellular Mononuclear Cell
Hyperplasia
Hyperplasia
Fibrosis
Hyperkeratosis
Hyperplasia
Ulcer
Inflammation Chronic
Infiltration Cellular Mononuclear Cell

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Adrenal Cortex
Angiectasis

LESION RATES

OVERALL (a)	4/10 (40%)	0/10 (0%)
POLY-3 RATE (b)	4/10.00	0/9.23
POLY-3 PERCENT (g)	40%	0%
TERMINAL (d)	4/10 (40%)	0/8 (0%)
FIRST INCIDENCE	93 (T)	---

STATISTICAL TESTS

POLY 3	P=0.042N*
POLY 1.5	P=0.037N*
POLY 6	P=0.048N*
COCH-ARM / FISHERS	P=0.043N*
MAX-ISO-POLY-3	P=0.012N*

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

**Adrenal Cortex
Infiltration Cellular**

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/9.23
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
------	-----------	-------

Bone Marrow
Hyperplasia

LESION RATES

OVERALL (a)	0/10 (0%)	7/10 (70%)
POLY-3 RATE (b)	0/10.00	7/10.00
POLY-3 PERCENT (g)	0%	70%
TERMINAL (d)	0/10 (0%)	5/8 (63%)
FIRST INCIDENCE	---	79

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P=0.002**
MAX-ISO-POLY-3	P<0.001**

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

**Epididymis
Inflammation**

LESION RATES

OVERALL (a)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	1/10.00	2/10.00
POLY-3 PERCENT (g)	10%	20%
TERMINAL (d)	1/10 (10%)	0/8 (0%)
FIRST INCIDENCE	93 (T)	79

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.274

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Harderian Gland
Infiltration Cellular

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/9.23
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Heart
Cardiomyopathy

LESION RATES

OVERALL (a)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	10/10.00	10/10.00
POLY-3 PERCENT (g)	100%	100%
TERMINAL (d)	10/10 (100%)	8/8 (100%)
FIRST INCIDENCE	93 (T)	79

STATISTICAL TESTS

POLY 3	(e)
POLY 1.5	(e)
POLY 6	(e)
COCH-ARM / FISHERS	(e)
MAX-ISO-POLY-3	(e)

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Species/Strain: RATS/F 344/N

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Heart
Inflammation Chronic

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/9.23
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Heart: Epicardium
Hyperplasia

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/9.23
POLY-3 PERCENT (g)	0%	10.8%
TERMINAL (d)	0/10 (0%)	1/8 (13%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.484
POLY 1.5	P=0.491
POLY 6	P=0.473
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.157

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Intestine Large, Rectum
Parasite Metazoan

LESION RATES

OVERALL (a)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	1/9.23
POLY-3 PERCENT (g)	10%	10.8%
TERMINAL (d)	1/10 (10%)	1/8 (13%)
FIRST INCIDENCE	93 (T)	93 (T)

STATISTICAL TESTS

POLY 3	P=0.743
POLY 1.5	P=0.751
POLY 6	P=0.731
COCH-ARM / FISHERS	P=0.763N
MAX-ISO-POLY-3	P=0.476

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
------	-----------	-------

Islets, Pancreatic
Infiltration Cellular Mononuclear Cell

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/9.23
POLY-3 PERCENT (g)	10%	0%
TERMINAL (d)	1/10 (10%)	0/8 (0%)
FIRST INCIDENCE	93 (T)	---

STATISTICAL TESTS

POLY 3	P=0.516N
POLY 1.5	P=0.509N
POLY 6	P=0.526N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.178N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
------	-----------	-------

Kidney
Accumulation, Hyaline Droplet

LESION RATES

OVERALL (a)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
TERMINAL (d)	0/10 (0%)	8/8 (100%)
FIRST INCIDENCE	---	79

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Kidney
Infarct Chronic Focal

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/9.23
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

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TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Kidney
Infiltration Cellular Mononuclear Cell

LESION RATES

OVERALL (a)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	1/9.23
POLY-3 PERCENT (g)	10%	10.8%
TERMINAL (d)	1/10 (10%)	1/8 (13%)
FIRST INCIDENCE	93 (T)	93 (T)

STATISTICAL TESTS

POLY 3	P=0.743
POLY 1.5	P=0.751
POLY 6	P=0.731
COCH-ARM / FISHERS	P=0.763N
MAX-ISO-POLY-3	P=0.476

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TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

**Kidney
Mineralization**

LESION RATES

OVERALL (a)	9/10 (90%)	8/10 (80%)
POLY-3 RATE (b)	9/10.00	8/10.00
POLY-3 PERCENT (g)	90%	80%
TERMINAL (d)	9/10 (90%)	6/8 (75%)
FIRST INCIDENCE	93 (T)	79

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.274N

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Species/Strain: RATS/F 344/N

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TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

**Kidney
Nephropathy**

LESION RATES

OVERALL (a)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	10/10.00	10/10.00
POLY-3 PERCENT (g)	100%	100%
TERMINAL (d)	10/10 (100%)	8/8 (100%)
FIRST INCIDENCE	93 (T)	79

STATISTICAL TESTS

POLY 3	(e)
POLY 1.5	(e)
POLY 6	(e)
COCH-ARM / FISHERS	(e)
MAX-ISO-POLY-3	(e)

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TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
------	-----------	-------

Kidney: Renal Tubule
Casts Granular

LESION RATES

OVERALL (a)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
TERMINAL (d)	0/10 (0%)	8/8 (100%)
FIRST INCIDENCE	---	79

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

**Kidney: Renal Tubule
Degeneration**

LESION RATES

OVERALL (a)	2/10 (20%)	10/10 (100%)
POLY-3 RATE (b)	2/10.00	10/10.00
POLY-3 PERCENT (g)	20%	100%
TERMINAL (d)	2/10 (20%)	8/8 (100%)
FIRST INCIDENCE	93 (T)	79

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	P<0.001**

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Liver
Hematopoietic Cell Proliferation

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/9.23
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Liver
Hepatodiaphragmatic Nodule

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/9.23
POLY-3 PERCENT (g)	10%	0%
TERMINAL (d)	1/10 (10%)	0/8 (0%)
FIRST INCIDENCE	93 (T)	---

STATISTICAL TESTS

POLY 3	P=0.516N
POLY 1.5	P=0.509N
POLY 6	P=0.526N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.178N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Liver
Inflammation

LESION RATES

OVERALL (a)	8/10 (80%)	9/10 (90%)
POLY-3 RATE (b)	8/10.00	9/10.00
POLY-3 PERCENT (g)	80%	90%
TERMINAL (d)	8/10 (80%)	7/8 (88%)
FIRST INCIDENCE	93 (T)	79

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.274

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Liver
Necrosis Focal

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/9.23
POLY-3 PERCENT (g)	0%	10.8%
TERMINAL (d)	0/10 (0%)	1/8 (13%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.484
POLY 1.5	P=0.491
POLY 6	P=0.473
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.157

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Lung
Hemorrhage

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/9.23
POLY-3 PERCENT (g)	0%	10.8%
TERMINAL (d)	0/10 (0%)	1/8 (13%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.484
POLY 1.5	P=0.491
POLY 6	P=0.473
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.157

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
------	-----------	-------

Lung
Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	2/10 (20%)	2/10 (20%)
POLY-3 RATE (b)	2/10.00	2/9.61
POLY-3 PERCENT (g)	20%	20.8%
TERMINAL (d)	2/10 (20%)	1/8 (13%)
FIRST INCIDENCE	93 (T)	79

STATISTICAL TESTS

POLY 3	P=0.688
POLY 1.5	P=0.694
POLY 6	P=0.679
COCH-ARM / FISHERS	P=0.709N
MAX-ISO-POLY-3	P=0.481

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

**Lung
Inflammation**

LESION RATES

OVERALL (a)	2/10 (20%)	4/10 (40%)
POLY-3 RATE (b)	2/10.00	4/9.23
POLY-3 PERCENT (g)	20%	43.4%
TERMINAL (d)	2/10 (20%)	4/8 (50%)
FIRST INCIDENCE	93 (T)	93 (T)

STATISTICAL TESTS

POLY 3	P=0.274
POLY 1.5	P=0.293
POLY 6	P=0.247
COCH-ARM / FISHERS	P=0.314
MAX-ISO-POLY-3	P=0.147

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 03/30/2016

Time Report Requested: 14:19:44

First Dose M/F: 06/15/05 / 06/16/05

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

**Lung
Metaplasia Osseous**

LESION RATES

OVERALL (a)	5/10 (50%)	4/10 (40%)
POLY-3 RATE (b)	5/10.00	4/9.23
POLY-3 PERCENT (g)	50%	43.4%
TERMINAL (d)	5/10 (50%)	4/8 (50%)
FIRST INCIDENCE	93 (T)	93 (T)

STATISTICAL TESTS

POLY 3	P=0.563N
POLY 1.5	P=0.535N
POLY 6	P=0.605N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.391N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Lung
Pigmentation Hemosiderin

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/9.23
POLY-3 PERCENT (g)	0%	10.8%
TERMINAL (d)	0/10 (0%)	1/8 (13%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.484
POLY 1.5	P=0.491
POLY 6	P=0.473
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.157

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Lung: Serosa
Inflammation Granulomatous

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/9.23
POLY-3 PERCENT (g)	0%	10.8%
TERMINAL (d)	0/10 (0%)	1/8 (13%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.484
POLY 1.5	P=0.491
POLY 6	P=0.473
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.157

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
------	-----------	-------

Nose
Inflammation Chronic

LESION RATES

OVERALL (a)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	2/9.61
POLY-3 PERCENT (g)	0%	20.8%
TERMINAL (d)	0/10 (0%)	1/8 (13%)
FIRST INCIDENCE	---	79

STATISTICAL TESTS

POLY 3	P=0.217
POLY 1.5	P=0.221
POLY 6	P=0.211
COCH-ARM / FISHERS	P=0.237
MAX-ISO-POLY-3	P=0.065

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Pancreas
Atrophy

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/9.23
POLY-3 PERCENT (g)	0%	10.8%
TERMINAL (d)	0/10 (0%)	1/8 (13%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.484
POLY 1.5	P=0.491
POLY 6	P=0.473
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.157

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Pancreas
Infiltration Cellular Mononuclear Cell

LESION RATES

OVERALL (a)	4/10 (40%)	3/10 (30%)
POLY-3 RATE (b)	4/10.00	3/9.61
POLY-3 PERCENT (g)	40%	31.2%
TERMINAL (d)	4/10 (40%)	2/8 (25%)
FIRST INCIDENCE	93 (T)	79

STATISTICAL TESTS

POLY 3	P=0.525N
POLY 1.5	P=0.514N
POLY 6	P=0.541N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.349N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Pituitary Gland
Cyst

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/9.23
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Preputial Gland
Inflammation Chronic Focal

LESION RATES

OVERALL (a)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	3/9.23
POLY-3 PERCENT (g)	0%	32.5%
TERMINAL (d)	0/10 (0%)	3/8 (38%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.079
POLY 1.5	P=0.086
POLY 6	P=0.070
COCH-ARM / FISHERS	P=0.105
MAX-ISO-POLY-3	P=0.023*

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Prostate
Inflammation

LESION RATES

OVERALL (a)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/9.23
POLY-3 PERCENT (g)	20%	0%
TERMINAL (d)	2/10 (20%)	0/8 (0%)
FIRST INCIDENCE	93 (T)	---

STATISTICAL TESTS

POLY 3	P=0.246N
POLY 1.5	P=0.237N
POLY 6	P=0.259N
COCH-ARM / FISHERS	P=0.237N
MAX-ISO-POLY-3	P=0.082N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Salivary Glands: Sublingual Gland
Ectopic Tissue

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/9.23
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Salivary Glands: Submandibular Gland
Ectopic Tissue

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/9.23
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Salivary Glands: Submandibular Gland
Vacuolization Cytoplasmic

LESION RATES

OVERALL (a)	5/10 (50%)	4/10 (40%)
POLY-3 RATE (b)	5/10.00	4/9.23
POLY-3 PERCENT (g)	50%	43.4%
TERMINAL (d)	5/10 (50%)	4/8 (50%)
FIRST INCIDENCE	93 (T)	93 (T)

STATISTICAL TESTS

POLY 3	P=0.563N
POLY 1.5	P=0.535N
POLY 6	P=0.605N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.391N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Skin: Hair Follicle, Site of Application
Hyperplasia

LESION RATES

OVERALL (a)	0/10 (0%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	9/10.00
POLY-3 PERCENT (g)	0%	90%
TERMINAL (d)	0/10 (0%)	7/8 (88%)
FIRST INCIDENCE	---	79

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	P<0.001**

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
------	-----------	-------

Skin: Sebaceous Gland, Site of Application
Hyperplasia

LESION RATES

OVERALL (a)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
TERMINAL (d)	0/10 (0%)	8/8 (100%)
FIRST INCIDENCE	---	79

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	(e)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
------	-----------	-------

Skin: Site of Application - Dermis
Fibrosis

LESION RATES

OVERALL (a)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
TERMINAL (d)	0/10 (0%)	8/8 (100%)
FIRST INCIDENCE	---	79

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	(e)

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 03/30/2016

Time Report Requested: 14:19:44

First Dose M/F: 06/15/05 / 06/16/05

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Skin: Site of Application - Epidermis
Hyperkeratosis

LESION RATES

OVERALL (a)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
TERMINAL (d)	0/10 (0%)	8/8 (100%)
FIRST INCIDENCE	---	79

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	(e)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
------	-----------	-------

Skin: Site of Application - Epidermis
Hyperplasia

LESION RATES

OVERALL (a)	0/10 (0%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	9/10.00
POLY-3 PERCENT (g)	0%	90%
TERMINAL (d)	0/10 (0%)	7/8 (88%)
FIRST INCIDENCE	---	79

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	P<0.001**

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Skin: Site of Application - Epidermis
Ulcer

LESION RATES

OVERALL (a)	0/10 (0%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	8/10.00
POLY-3 PERCENT (g)	0%	80%
TERMINAL (d)	0/10 (0%)	6/8 (75%)
FIRST INCIDENCE	---	79

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	P<0.001**

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Skin: Site of Application
Inflammation Chronic

LESION RATES

OVERALL (a)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
TERMINAL (d)	0/10 (0%)	8/8 (100%)
FIRST INCIDENCE	---	79

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	(e)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Thyroid Gland
Infiltration Cellular Mononuclear Cell

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/9.23
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Thyroid Gland
Ultimobranchial Cyst

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/9.23
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Trachea
Infiltration Cellular Mononuclear Cell

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/9.23
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Urinary Bladder
Infiltration Cellular Mononuclear Cell

LESION RATES

OVERALL (a)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	1/9.23
POLY-3 PERCENT (g)	10%	10.8%
TERMINAL (d)	1/10 (10%)	1/8 (13%)
FIRST INCIDENCE	93 (T)	93 (T)

STATISTICAL TESTS

POLY 3	P=0.743
POLY 1.5	P=0.751
POLY 6	P=0.731
COCH-ARM / FISHERS	P=0.763N
MAX-ISO-POLY-3	P=0.476

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	UNTREATED	100 %
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Urinary Bladder: Serosa
Mineralization Focal

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/9.23
POLY-3 PERCENT (g)	0%	10.8%
TERMINAL (d)	0/10 (0%)	1/8 (13%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.484
POLY 1.5	P=0.491
POLY 6	P=0.473
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.157

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Adrenal Cortex
Angiectasis

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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**Adrenal Cortex
Infiltration Cellular**

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.158N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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**Bone Marrow
Hyperplasia**

LESION RATES

OVERALL (a)	0/10 (0%)	7/10 (70%)
POLY-3 RATE (b)	0/10.00	7/10.00
POLY-3 PERCENT (g)	0%	70%
TERMINAL (d)	0/10 (0%)	7/10 (70%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P=0.002**
MAX-ISO-POLY-3	P<0.001**

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Clitoral Gland
Infiltration Cellular Mononuclear Cell

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.158N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Clitoral Gland
Inflammation Chronic

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.158N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Clitoral Gland
Inflammation Chronic Focal

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.158N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Harderian Gland
Infiltration Cellular

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
TERMINAL (d)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.158

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Heart
Cardiomyopathy

LESION RATES

OVERALL (a)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	10/10.00	10/10.00
POLY-3 PERCENT (g)	100%	100%
TERMINAL (d)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	93 (T)	93 (T)

STATISTICAL TESTS

POLY 3	(e)
POLY 1.5	(e)
POLY 6	(e)
COCH-ARM / FISHERS	(e)
MAX-ISO-POLY-3	(e)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
------	-----------	-------

Heart
Inflammation Chronic

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.158N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Heart: Epicardium
Hyperplasia

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Intestine Large, Rectum
Parasite Metazoan

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Islets, Pancreatic
Infiltration Cellular Mononuclear Cell

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Kidney
Accumulation, Hyaline Droplet

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Kidney
Infarct Chronic Focal

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.158N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Kidney
Infiltration Cellular Mononuclear Cell

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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**Kidney
Mineralization**

LESION RATES

OVERALL (a)	5/10 (50%)	6/10 (60%)
POLY-3 RATE (b)	5/10.00	6/10.00
POLY-3 PERCENT (g)	50%	60%
TERMINAL (d)	5/10 (50%)	6/10 (60%)
FIRST INCIDENCE	93 (T)	93 (T)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.332

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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**Kidney
Nephropathy**

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
TERMINAL (d)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.158

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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**Kidney: Renal Tubule
Casts Granular**

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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**Kidney: Renal Tubule
Degeneration**

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Liver
Hematopoietic Cell Proliferation

LESION RATES

OVERALL (a)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/10.00
POLY-3 PERCENT (g)	20%	0%
TERMINAL (d)	2/10 (20%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---

STATISTICAL TESTS

POLY 3	P=0.227N
POLY 1.5	P=0.227N
POLY 6	P=0.227N
COCH-ARM / FISHERS	P=0.237N
MAX-ISO-POLY-3	P=0.066N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Liver
Hepatodiaphragmatic Nodule

LESION RATES

OVERALL (a)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/10.00
POLY-3 PERCENT (g)	20%	0%
TERMINAL (d)	2/10 (20%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---

STATISTICAL TESTS

POLY 3	P=0.227N
POLY 1.5	P=0.227N
POLY 6	P=0.227N
COCH-ARM / FISHERS	P=0.237N
MAX-ISO-POLY-3	P=0.066N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Liver
Inflammation

LESION RATES

OVERALL (a)	10/10 (100%)	7/10 (70%)
POLY-3 RATE (b)	10/10.00	7/10.00
POLY-3 PERCENT (g)	100%	70%
TERMINAL (d)	10/10 (100%)	7/10 (70%)
FIRST INCIDENCE	93 (T)	93 (T)

STATISTICAL TESTS

POLY 3	P=0.095N
POLY 1.5	P=0.095N
POLY 6	P=0.095N
COCH-ARM / FISHERS	P=0.105N
MAX-ISO-POLY-3	P=0.025N*

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Liver
Necrosis Focal

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Lung
Hemorrhage

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Lung
Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
TERMINAL (d)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.158

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 03/30/2016

Time Report Requested: 14:19:44

First Dose M/F: 06/15/05 / 06/16/05

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

**Lung
Inflammation**

LESION RATES

OVERALL (a)	3/10 (30%)	2/10 (20%)
POLY-3 RATE (b)	3/10.00	2/10.00
POLY-3 PERCENT (g)	30%	20%
TERMINAL (d)	3/10 (30%)	2/10 (20%)
FIRST INCIDENCE	93 (T)	93 (T)

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.310N

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 03/30/2016

Time Report Requested: 14:19:44

First Dose M/F: 06/15/05 / 06/16/05

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Lung
Metaplasia Osseous

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.158N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Lung
Pigmentation Hemosiderin

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

**Lung: Serosa
Inflammation Granulomatous**

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Nose
Inflammation Chronic

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
TERMINAL (d)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.158

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Ovary: Left
Cyst

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.158N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
------	-----------	-------

Pancreas
Atrophy

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
TERMINAL (d)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.158

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Pancreas
Infiltration Cellular Mononuclear Cell

LESION RATES

OVERALL (a)	7/10 (70%)	3/10 (30%)
POLY-3 RATE (b)	7/10.00	3/10.00
POLY-3 PERCENT (g)	70%	30%
TERMINAL (d)	7/10 (70%)	3/10 (30%)
FIRST INCIDENCE	93 (T)	93 (T)

STATISTICAL TESTS

POLY 3	P=0.082N
POLY 1.5	P=0.082N
POLY 6	P=0.082N
COCH-ARM / FISHERS	P=0.089N
MAX-ISO-POLY-3	P=0.032N*

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Pituitary Gland
Cyst

LESION RATES

OVERALL (a)	2/10 (20%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	1/10.00
POLY-3 PERCENT (g)	20%	10%
TERMINAL (d)	2/10 (20%)	1/10 (10%)
FIRST INCIDENCE	93 (T)	93 (T)

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.274N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Salivary Glands: Sublingual Gland
Ectopic Tissue

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
TERMINAL (d)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.158

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 03/30/2016

Time Report Requested: 14:19:44

First Dose M/F: 06/15/05 / 06/16/05

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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**Salivary Glands: Submandibular Gland
Ectopic Tissue**

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
TERMINAL (d)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.158

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 03/30/2016

Time Report Requested: 14:19:44

First Dose M/F: 06/15/05 / 06/16/05

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Salivary Glands: Submandibular Gland
Vacuolization Cytoplasmic

LESION RATES

OVERALL (a)	3/10 (30%)	1/10 (10%)
POLY-3 RATE (b)	3/10.00	1/10.00
POLY-3 PERCENT (g)	30%	10%
TERMINAL (d)	3/10 (30%)	1/10 (10%)
FIRST INCIDENCE	93 (T)	93 (T)

STATISTICAL TESTS

POLY 3	P=0.292N
POLY 1.5	P=0.292N
POLY 6	P=0.292N
COCH-ARM / FISHERS	P=0.291N
MAX-ISO-POLY-3	P=0.136N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Skin: Hair Follicle, Site of Application
Hyperplasia

LESION RATES

OVERALL (a)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	(e)

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 03/30/2016

Time Report Requested: 14:19:44

First Dose M/F: 06/15/05 / 06/16/05

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Skin: Sebaceous Gland, Site of Application
Hyperplasia

LESION RATES

OVERALL (a)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	(e)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
------	-----------	-------

Skin: Site of Application - Dermis
Fibrosis

LESION RATES

OVERALL (a)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	(e)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Skin: Site of Application - Epidermis
Hyperkeratosis

LESION RATES

OVERALL (a)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	(e)

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 03/30/2016

Time Report Requested: 14:19:44

First Dose M/F: 06/15/05 / 06/16/05

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

**Skin: Site of Application - Epidermis
Hyperplasia**

LESION RATES

OVERALL (a)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	(e)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

**Skin: Site of Application - Epidermis
Ulcer**

LESION RATES

OVERALL (a)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	(e)

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Skin: Site of Application
Inflammation Chronic

LESION RATES

OVERALL (a)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P<0.001**
POLY 1.5	P<0.001**
POLY 6	P<0.001**
COCH-ARM / FISHERS	P<0.001**
MAX-ISO-POLY-3	(e)

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 03/30/2016

Time Report Requested: 14:19:44

First Dose M/F: 06/15/05 / 06/16/05

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

**Thyroid Gland
Infiltration Cellular Mononuclear Cell**

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
TERMINAL (d)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.158

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
-------------	------------------	--------------

Thyroid Gland
Ultimobranchial Cyst

LESION RATES

OVERALL (a)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	2/10.00
POLY-3 PERCENT (g)	0%	20%
TERMINAL (d)	0/10 (0%)	2/10 (20%)
FIRST INCIDENCE	---	93 (T)

STATISTICAL TESTS

POLY 3	P=0.227
POLY 1.5	P=0.227
POLY 6	P=0.227
COCH-ARM / FISHERS	P=0.237
MAX-ISO-POLY-3	P=0.066

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 03/30/2016

Time Report Requested: 14:19:44

First Dose M/F: 06/15/05 / 06/16/05

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Trachea
Infiltration Cellular Mononuclear Cell

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.158N

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
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Urinary Bladder
Infiltration Cellular Mononuclear Cell

LESION RATES

OVERALL (a)	5/10 (50%)	0/10 (0%)
POLY-3 RATE (b)	5/10.00	0/10.00
POLY-3 PERCENT (g)	50%	0%
TERMINAL (d)	5/10 (50%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---

STATISTICAL TESTS

POLY 3	P=0.008N**
POLY 1.5	P=0.008N**
POLY 6	P=0.008N**
COCH-ARM / FISHERS	P=0.016N*
MAX-ISO-POLY-3	P<0.001N**

Experiment Number: 20316 - 01
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cedarwood oil
CAS Number: 8000-27-9

Date Report Requested: 03/30/2016
Time Report Requested: 14:19:44
First Dose M/F: 06/15/05 / 06/16/05
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 14 WEEKS**

Females

DOSE	UNTREATED	100 %
------	-----------	-------

Urinary Bladder: Serosa
Mineralization Focal

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cedarwood oil

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First Dose M/F: 06/15/05 / 06/16/05

Lab: BAT

LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (e) Value of statistic cannot be computed.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (n) No statistics are calculated if all dose groups have fewer than two tumors.
 - (I) Interim sacrifice
 - (T) Terminal sacrifice
 - # Tumor rates based on numbers of animals necropsied.
 - * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
 - ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
 - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***