

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil  
**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014  
**Time Report Requested:** 08:57:03  
**First Dose M/F:** 06/15/05 / 06/16/05  
**Lab:** BAT

F1\_Rev.1\_R2

**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 ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.0\_001  
**PWG Approval Date:** 11/26/2007

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

**ANIMAL ID:** 201

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** UNTREATED

**DISP:** Terminal Sacrifice

**HISTO:** 0504061

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart	Cardiomyopathy	Minimal
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Liver	Inflammation	Minimal

Experiment Number: 20316 - 01

Test Type: 90-DAY

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Species/Strain: RATS/F 344/N

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Cedarwood oil

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Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 202

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504062

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |            |              |                       |                         |
|------------|--------------|-----------------------|-------------------------|
| * Heart    |              | Cardiomyopathy        | Minimal                 |
| * Kidney   | Renal Tubule | Degeneration          | Minimal                 |
|            |              | Mineralization        | Minimal                 |
|            |              | Nephropathy           | Minimal                 |
| * Liver    |              | Inflammation          | Minimal                 |
| * Pancreas |              | Infiltration Cellular | Mononuclear CI, Minimal |

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Test Type: 90-DAY

Route: SKIN APPLICATION

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Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 203

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Preputial Gland         | * Prostate                  | * Seminal Vesicle        | * Skin                     |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                |                           |         |
|-------------------|----------------|---------------------------|---------|
| * Heart           |                | Cardiomyopathy            | Minimal |
| * Kidney          | Renal Tubule   | Degeneration              | Minimal |
|                   |                | Mineralization            | Minimal |
|                   |                | Nephropathy               | Minimal |
| * Liver           |                | Inflammation              | Minimal |
| * Salivary Glands | Submandibul GI | Vacuolization Cytoplasmic | Mild    |

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Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 204

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504064

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     | * Pituitary Gland         |
| * Preputial Gland           | * Prostate               | * Seminal Vesicle          | * Skin                    |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  |
| * Thymus                    | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

MISSING

- |                          |                     |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

- |                   |                       |                           |         |
|-------------------|-----------------------|---------------------------|---------|
| * Epididymis      | Inflammation          | Minimal                   |         |
| * Heart           | Cardiomyopathy        | Minimal                   |         |
| * Kidney          | Mineralization        | Minimal                   |         |
|                   | Nephropathy           | Minimal                   |         |
| * Liver           | Inflammation          | Minimal                   |         |
| * Lung            | Metaplasia            | Osseous, Minimal          |         |
| * Pancreas        | Infiltration Cellular | Mononuclear CI, Minimal   |         |
| * Salivary Glands | Submandibul GI        | Vacuolization Cytoplasmic | Minimal |

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Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 205

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Skin
- \* Testes
- \* Urinary Bladder
- \* Blood Vessel
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Preputial Gland
- \* Spleen
- \* Thymus
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Prostate
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |  |                            |                         |
|-------------------|--|----------------------------|-------------------------|
| * Adrenal Cortex  |  | Angiectasis                | Minimal                 |
| * Heart           |  | Cardiomyopathy             | Minimal                 |
| * Kidney          |  | Mineralization             | Minimal                 |
|                   |  | Nephropathy                | Minimal                 |
| * Liver           |  | Hepatodiaphragmatic Nodule |                         |
|                   |  | Inflammation               | Minimal                 |
|                   | [ Hepatodiaphragmatic Nodule TGLs = 1-14 ] |                            |                         |
| * Lung            |  | Metaplasia                 | Osseous, Minimal        |
| * Pancreas        |  | Infiltration Cellular      | Mononuclear CI, Minimal |
| * Salivary Glands | Submandibul GI                             | Vacuolization Cytoplasmic  | Mild                    |

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Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 206

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504066

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla        | * Blood Vessel             | * Bone                   | * Bone Marrow               |
| * Brain                  | * Epididymis               | * Esophagus              | * Eye                       |
| * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Nose                     | * Pancreas               | * Parathyroid Gland         |
| * Pituitary Gland        | * Preputial Gland          | * Prostate               | * Seminal Vesicle           |
| * Skin                   | * Spleen                   | * Stomach, Forestomach   | * Stomach, Glandular        |
| * Testes                 | * Thymus                   | * Thyroid Gland          | * Trachea                   |
| * Urinary Bladder        |                            |                          |                             |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                           |                |                           |                         |
|---------------------------|----------------|---------------------------|-------------------------|
| * Adrenal Cortex          |                | Angiectasis               | Minimal                 |
| * Heart                   |                | Cardiomyopathy            | Mild                    |
| * Intestine Large, Rectum |                | Parasite Metazoan         | Minimal                 |
| * Kidney                  |                | Infiltration Cellular     | Mononuclear CI, Minimal |
|                           |                | Mineralization            | Minimal                 |
|                           |                | Nephropathy               | Minimal                 |
| * Liver                   |                | Inflammation              | Minimal                 |
| * Lung                    |                | Inflammation              | Minimal                 |
| * Salivary Glands         | Submandibul GI | Vacuolization Cytoplasmic | Mild                    |

Experiment Number: 20316 - 01

Test Type: 90-DAY

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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 207

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Preputial Gland         | * Prostate                  | * Seminal Vesicle        | * Skin                     |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   |
| * Thymus                  | * Thyroid Gland             | * Trachea                |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                |                           |                         |
|-------------------|----------------|---------------------------|-------------------------|
| * Heart           |                | Cardiomyopathy            | Mild                    |
| * Kidney          |                | Nephropathy               | Minimal                 |
| * Lung            |                | Inflammation              | Minimal                 |
|                   |                | Metaplasia                | Osseous, Minimal        |
| * Salivary Glands | Submandibul GI | Vacuolization Cytoplasmic | Minimal                 |
| * Urinary Bladder |                | Infiltration Cellular     | Mononuclear CI, Minimal |



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Test Type: 90-DAY

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Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

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Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 208

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Blood Vessel           | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Nose                   | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Preputial Gland        | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Testes                    | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                      |                       |                         |
|----------------------|-----------------------|-------------------------|
| * Adrenal Cortex     | Angiectasis           | Minimal                 |
| * Heart              | Cardiomyopathy        | Minimal                 |
| * Islets, Pancreatic | Infiltration Cellular | Mononuclear CI, Minimal |
| * Kidney             | Mineralization        | Minimal                 |
|                      | Nephropathy           | Minimal                 |
| * Liver              | Inflammation          | Minimal                 |
| * Lung               | Infiltration Cellular | Histiocyte, Minimal     |
| * Prostate           | Inflammation          | Minimal                 |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 209

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Preputial Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testes                  | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |          |                       |                     |
|----------|-----------------------|---------------------|
| * Heart  | Cardiomyopathy        | Minimal             |
| * Kidney | Mineralization        | Minimal             |
|          | Nephropathy           | Minimal             |
| * Lung   | Infiltration Cellular | Histiocyte, Minimal |
|          | Metaplasia            | Osseous, Minimal    |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 210

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504070

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Blood Vessel           | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     | * Parathyroid Gland       |
| * Pituitary Gland           | * Preputial Gland        | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Testes                    | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                  |                       |                         |
|------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Angiectasis           | Minimal                 |
| * Heart          | Cardiomyopathy        | Minimal                 |
| * Kidney         | Mineralization        | Minimal                 |
|                  | Nephropathy           | Minimal                 |
| * Liver          | Inflammation          | Minimal                 |
| * Lung           | Metaplasia            | Osseous, Minimal        |
| * Pancreas       | Infiltration Cellular | Mononuclear CI, Minimal |
| * Prostate       | Inflammation          | Minimal                 |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

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Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 211

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504071

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          |
| * Prostate                | * Seminal Vesicle           | * Skin                   | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Testes                 | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                |                           |                         |
|-------------------|----------------|---------------------------|-------------------------|
| * Heart           |                | Cardiomyopathy            | Minimal                 |
| * Kidney          |                | Nephropathy               | Minimal                 |
| * Liver           |                | Inflammation              | Minimal                 |
| * Pancreas        |                | Infiltration Cellular     | Mononuclear CI, Minimal |
| * Salivary Glands | Submandibul GI | Vacuolization Cytoplasmic | Minimal                 |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 212

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504072

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     |
| * Parathyroid Gland       | * Pituitary Gland           | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Skin                   | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Testes                 | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |            |                       |                         |
|------------|-----------------------|-------------------------|
| * Heart    | Cardiomyopathy        | Mild                    |
| * Kidney   | Nephropathy           | Minimal                 |
| * Liver    | Inflammation          | Minimal                 |
| * Lung     | Inflammation          | Minimal                 |
| * Pancreas | Infiltration Cellular | Mononuclear CI, Minimal |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 213

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504073

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Preputial Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testes                  | * Thymus                    | * Thyroid Gland          | * Trachea                  |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                       |                         |
|-------------------|-----------------------|-------------------------|
| * Heart           | Cardiomyopathy        | Minimal                 |
| * Kidney          | Mineralization        | Minimal                 |
|                   | Nephropathy           | Minimal                 |
| * Lung            | Metaplasia            | Osseous, Minimal        |
| * Urinary Bladder | Infiltration Cellular | Mononuclear Cl, Minimal |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 214

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504074

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     |
| * Parathyroid Gland       | * Pituitary Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Testes                    | * Thymus                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                |                      |
|-------------------|----------------|----------------------|
| * Heart           | Cardiomyopathy | Minimal              |
| * Kidney          | Nephropathy    | Minimal              |
| * Liver           | Inflammation   | Minimal              |
| * Lung            | Inflammation   | Minimal              |
|                   | Metaplasia     | Osseous, Minimal     |
| * Pancreas        | Atrophy        | Minimal              |
| * Preputial Gland | Inflammation   | Chronic, Focal, Mild |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 215

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504075

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     | * Parathyroid Gland       |
| * Pituitary Gland           | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Spleen                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Testes                 | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |              |                       |                         |
|--------------|-----------------------|-------------------------|
| * Epididymis | Infiltration Cellular | Mononuclear CI, Minimal |
| * Heart      | Cardiomyopathy        | Minimal                 |
| * Kidney     | Mineralization        | Minimal                 |
|              | Nephropathy           | Minimal                 |
| * Liver      | Inflammation          | Minimal                 |
| * Lung       | Metaplasia            | Osseous, Minimal        |
| * Pancreas   | Infiltration Cellular | Mononuclear CI, Minimal |



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

**ANIMAL ID:** 216

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 0 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504076

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     |
| * Parathyroid Gland       | * Pituitary Gland           | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Skin                   | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Testes                 | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |            |  |                            |                         |
|------------|--|----------------------------|-------------------------|
| * Heart    |  | Cardiomyopathy             | Minimal                 |
| * Kidney   | Renal Tubule                               | Degeneration               | Minimal                 |
|            |  | Nephropathy                | Minimal                 |
| * Liver    |  | Hepatodiaphragmatic Nodule |                         |
|            |  | Inflammation               | Minimal                 |
|            | [ Hepatodiaphragmatic Nodule TGLs = 1-14 ] |                            |                         |
| * Lung     |  | Inflammation               | Minimal                 |
| * Pancreas |  | Infiltration Cellular      | Mononuclear CI, Minimal |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 217

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504077

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Spleen                  |
| * Stomach, Forestomach      | * Testes                 | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                      |              |                                  |                  |
|----------------------|--------------|----------------------------------|------------------|
| * Epididymis         |              | Inflammation                     | Minimal          |
| * Heart              |              | Cardiomyopathy                   | Minimal          |
| * Kidney             | Renal Tubule | Degeneration                     | Minimal          |
|                      |              | Nephropathy                      | Minimal          |
| * Liver              |              | Hematopoietic Cell Proliferation | Minimal          |
|                      |              | Inflammation                     | Minimal          |
| * Lung               |              | Inflammation                     | Minimal          |
|                      |              | Metaplasia                       | Osseous, Minimal |
| * Stomach, Glandular | Glands       | Ectasia                          | Minimal          |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 218

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504078

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Blood Vessel           | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    |
| * Pancreas                  | * Pituitary Gland        | * Preputial Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Spleen                  |
| * Stomach, Forestomach      | * Testes                 | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

MISSING

- |                          |                     |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

- |                      |              |                |         |
|----------------------|--------------|----------------|---------|
| * Adrenal Cortex     |              | Angiectasis    | Minimal |
| * Heart              |              | Cardiomyopathy | Minimal |
| * Kidney             | Renal Tubule | Degeneration   | Minimal |
|                      |              | Mineralization | Minimal |
|                      |              | Nephropathy    | Minimal |
| * Liver              |              | Inflammation   | Minimal |
| * Stomach, Glandular | Glands       | Ectasia        | Minimal |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 219

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Preputial Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testes                  | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |          |                       |                         |
|----------|-----------------------|-------------------------|
| * Heart  | Cardiomyopathy        | Minimal                 |
| * Kidney | Infiltration Cellular | Mononuclear CI, Minimal |
|          | Nephropathy           | Minimal                 |
| * Lung   | Infiltration Cellular | Histiocyte, Minimal     |
|          | Inflammation          | Minimal                 |
|          | Metaplasia            | Osseous, Minimal        |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 220

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504080

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Prostate
- \* Stomach, Glandular
- \* Trachea
- \* Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Seminal Vesicle
- \* Testes
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Lung
- \* Parathyroid Gland
- \* Skin
- \* Thymus
- \* Bone Marrow
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Stomach, Forestomach
- \* Thyroid Gland

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |   |  |   |  |
|---|--|---|--|
| <ul style="list-style-type: none"> <li>* Adrenal Cortex</li> <li>* Epididymis</li> <li>* Heart</li> <li>* Islets, Pancreatic</li> <li>* Kidney</li> </ul> | <ul style="list-style-type: none"> <li>Renal Tubule</li> </ul> | <ul style="list-style-type: none"> <li>Angiectasis</li> <li>Inflammation</li> <li>Cardiomyopathy</li> <li>Infiltration Cellular</li> <li>Degeneration</li> <li>Mineralization</li> <li>Nephropathy</li> <li>Inflammation</li> <li>Infiltration Cellular</li> <li>Cyst</li> <li>Vacuolization Cytoplasmic</li> <li>Hematopoietic Cell Proliferation</li> </ul> | <ul style="list-style-type: none"> <li>Minimal</li> <li>Minimal</li> <li>Minimal</li> <li>Mononuclear CI, Minimal</li> <li>Minimal</li> <li>Minimal</li> <li>Minimal</li> <li>Minimal</li> <li>Mononuclear CI, Minimal</li> <li>Minimal</li> <li>Minimal</li> <li>Minimal</li> </ul> |
|---|--|---|--|

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

---

ANIMAL ID: 221

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 6.25 %

DISP: Terminal Sacrifice

HISTO: 0504081

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Adrenal Cortex

Bone Marrow

\* Skin

\* Thyroid Gland

---

**OBSERVATIONS**

\* Kidney

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

---

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

---

**ANIMAL ID:** 222

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504082

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Adrenal Cortex

Bone Marrow

\* Thyroid Gland

---

**OBSERVATIONS**

\* Kidney

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperplasia

Minimal

---

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cedarwood oil  
CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
Time Report Requested: 08:57:03  
First Dose M/F: 06/15/05 / 06/16/05  
Lab: BAT

ANIMAL ID: 223

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 6.25 %

DISP: Terminal Sacrifice

HISTO: 0504083

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Bone Marrow

\* Skin

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule

Degeneration

Minimal

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

---

**ANIMAL ID:** 224

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504084

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Adrenal Cortex

Bone Marrow

\* Thyroid Gland

---

**OBSERVATIONS**

\* Kidney

Renal Tubule

Degeneration

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

\* Skin

SOA

Inflammation

Chronic Active, Minimal

---

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

**ANIMAL ID:** 225

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504085

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex

Bone Marrow

**OBSERVATIONS**

\* Kidney

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperplasia

Minimal

\* Thyroid Gland

Ultimobranchial Cyst

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

---

**ANIMAL ID:** 226

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504086

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Adrenal Cortex

Bone Marrow

\* Skin

\* Thyroid Gland

---

**OBSERVATIONS**

\* Kidney

Renal Tubule

Degeneration

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

---

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Cedarwood oil  
**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014  
**Time Report Requested:** 08:57:03  
**First Dose M/F:** 06/15/05 / 06/16/05  
**Lab:** BAT

---

**ANIMAL ID:** 227

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504087

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Adrenal Cortex

Bone Marrow

\* Skin

\* Thyroid Gland

---

**OBSERVATIONS**

\* Kidney

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

---

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

---

**ANIMAL ID:** 228

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504088

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Adrenal Cortex

Bone Marrow

\* Skin

---

**OBSERVATIONS**

\* Kidney

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

\* Thyroid Gland

Ultimobranchial Cyst

---

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Cedarwood oil  
**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014  
**Time Report Requested:** 08:57:03  
**First Dose M/F:** 06/15/05 / 06/16/05  
**Lab:** BAT

---

**ANIMAL ID:** 229

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504089

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Adrenal Cortex

Bone Marrow

\* Skin

\* Thyroid Gland

---

**OBSERVATIONS**

\* Kidney

Renal Tubule

Degeneration

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

---

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cedarwood oil  
CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
Time Report Requested: 08:57:03  
First Dose M/F: 06/15/05 / 06/16/05  
Lab: BAT

ANIMAL ID: 230

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 6.25 %

DISP: Terminal Sacrifice

HISTO: 0504090

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Bone Marrow

\* Skin

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule

Degeneration

Minimal

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Cedarwood oil  
**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014  
**Time Report Requested:** 08:57:03  
**First Dose M/F:** 06/15/05 / 06/16/05  
**Lab:** BAT

---

**ANIMAL ID:** 231

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 12.5 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504091

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Adrenal Cortex

Bone Marrow

\* Thyroid Gland

---

**OBSERVATIONS**

\* Kidney

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperplasia

Mild

---



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 232

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 0504092

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex

Bone Marrow

\* Thyroid Gland

**OBSERVATIONS**

\* Kidney

Renal Tubule

Degeneration

Minimal

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperplasia

Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cedarwood oil  
CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
Time Report Requested: 08:57:03  
First Dose M/F: 06/15/05 / 06/16/05  
Lab: BAT

ANIMAL ID: 233

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 0504093

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Bone Marrow

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule

Degeneration

Minimal

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

\* Skin

SOA

Inflammation

Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cedarwood oil  
CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
Time Report Requested: 08:57:03  
First Dose M/F: 06/15/05 / 06/16/05  
Lab: BAT

ANIMAL ID: 234

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 0504094

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Bone Marrow

\* Skin

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule

Degeneration

Minimal

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cedarwood oil  
CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
Time Report Requested: 08:57:03  
First Dose M/F: 06/15/05 / 06/16/05  
Lab: BAT

ANIMAL ID: 235

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 0504095

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Bone Marrow

\* Skin

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Hematopoietic Cell Proliferation

Minimal

Inflammation

Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cedarwood oil  
CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
Time Report Requested: 08:57:03  
First Dose M/F: 06/15/05 / 06/16/05  
Lab: BAT

ANIMAL ID: 236

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 0504096

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Bone Marrow

\* Skin

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule

Degeneration

Minimal

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

**ANIMAL ID:** 237

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 12.5 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504097

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex

Bone Marrow

\* Thyroid Gland

**OBSERVATIONS**

\* Kidney

Renal Tubule

Degeneration

Minimal

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

\* Skin

SOA

Inflammation

Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cedarwood oil  
CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
Time Report Requested: 08:57:03  
First Dose M/F: 06/15/05 / 06/16/05  
Lab: BAT

ANIMAL ID: 238

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 0504098

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Bone Marrow

\* Skin

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule

Degeneration

Minimal

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 239

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 0504099

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Bone Marrow

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Minimal

SOA Epidermis

Ulcer

Minimal

Testes

Germinal Epith, Right

Atrophy

Moderate

[ Atrophy TGLs = 1-11 ]



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

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**ANIMAL ID:** 240

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 12.5 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504100

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Adrenal Cortex

Bone Marrow

\* Thyroid Gland

---

**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Minimal

---

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cedarwood oil  
CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
Time Report Requested: 08:57:03  
First Dose M/F: 06/15/05 / 06/16/05  
Lab: BAT

ANIMAL ID: 241

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Accumulation, Hyaline Droplet

Minimal

Renal Tubule

Casts Granular

Minimal

Renal Tubule

Degeneration

Minimal

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperplasia

Mild

SOA, Sebaceous GI

Hyperplasia

Mild

Hair Follicle, SOA

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Minimal

[ Hyperplasia TGLs = 1-14 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 242

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Accumulation, Hyaline Droplet

Minimal

Mineralization

Minimal

Nephropathy

Minimal

Inflammation

Minimal

\* Liver

\* Skin

SOA Dermis

Fibrosis

Minimal

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Mild

SOA, Sebaceous GI

Hyperplasia

Mild

Hair Follicle, SOA

Hyperplasia

Mild

SOA

Inflammation

Chronic Active, Minimal

[ Hyperplasia TGLs = 1-14 ]

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cedarwood oil  
CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
Time Report Requested: 08:57:03  
First Dose M/F: 06/15/05 / 06/16/05  
Lab: BAT

ANIMAL ID: 243

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504103

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Casts Granular

Minimal

Renal Tubule

Degeneration

Minimal

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

\* Skin

SOA Dermis

Fibrosis

Minimal

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Mild

SOA

Inflammation

Chronic Active, Minimal

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 244

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504104

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Liver

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Degeneration

Minimal

Nephropathy

Minimal

\* Skin

SOA Dermis

Fibrosis

Mild

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Mild

SOA, Sebaceous Gl

Hyperplasia

Moderate

Hair Follicle, SOA

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Minimal

[ Hyperplasia TGLs = 1,2-14+15 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 245

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504105

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Degeneration

Minimal

Infiltration Cellular

Mononuclear CI, Minimal

Mineralization

Minimal

Nephropathy

Minimal

Inflammation

Minimal

\* Liver

\* Skin

SOA Dermis

Fibrosis

Minimal

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Mild

SOA, Sebaceous GI

Hyperplasia

Mild

Hair Follicle, SOA

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Mild

[ Hyperkeratosis TGLs = 2-15 ]

[ Hyperplasia TGLs = 1-14 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 246

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504106

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Accumulation, Hyaline Droplet

Minimal

Renal Tubule

Casts Granular

Minimal

Renal Tubule

Degeneration

Minimal

Mineralization

Minimal

Nephropathy

Minimal

Inflammation

Minimal

\* Liver

Fibrosis

Minimal

\* Skin

SOA Dermis

Hyperkeratosis

Minimal

SOA Epidermis

SOA Epidermis

Hyperplasia

Mild

SOA, Sebaceous GI

Hyperplasia

Minimal

Hair Follicle, SOA

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Minimal

[ Hyperkeratosis TGLs = 2-15 ]

[ Hyperplasia TGLs = 1-14 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 247

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Accumulation, Hyaline Droplet

Minimal

Renal Tubule

Casts Granular

Minimal

Renal Tubule

Degeneration

Minimal

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperplasia

Minimal

SOA, Sebaceous GI

Hyperplasia

Minimal

Hair Follicle, SOA

Hyperplasia

Mild

[ Hyperplasia TGLs = 1-14 ]



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 248

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Liver

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Accumulation, Hyaline Droplet

Minimal

Nephropathy

Minimal

\* Skin

SOA Dermis

Fibrosis

Minimal

SOA Epidermis

Hyperkeratosis

Mild

SOA Epidermis

Hyperplasia

Mild

SOA, Sebaceous GI

Hyperplasia

Mild

Hair Follicle, SOA

Hyperplasia

Mild

SOA

Inflammation

Chronic Active, Moderate

SOA Epidermis

Ulcer

Moderate

[ Hyperkeratosis TGLs = 2-15 ]

[ Hyperplasia TGLs = 1-14 ]

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cedarwood oil  
CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
Time Report Requested: 08:57:03  
First Dose M/F: 06/15/05 / 06/16/05  
Lab: BAT

ANIMAL ID: 249

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Liver

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Degeneration

Minimal

Mineralization

Minimal

Nephropathy

Minimal

\* Skin

SOA, Sebaceous GI

Hyperplasia

Mild

SOA Epidermis

Hyperplasia

Moderate

Hair Follicle, SOA

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cedarwood oil  
CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
Time Report Requested: 08:57:03  
First Dose M/F: 06/15/05 / 06/16/05  
Lab: BAT

ANIMAL ID: 250

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Mild

Casts Granular

Minimal

Mineralization

Minimal

Nephropathy

Minimal

Inflammation

Minimal

\* Liver

\* Skin

SOA Dermis

Fibrosis

Minimal

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Mild

SOA, Sebaceous GI

Hyperplasia

Mild

Hair Follicle, SOA

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Mild

[ Hyperkeratosis TGLs = 2-15 ]

[ Hyperplasia TGLs = 1-14 ]

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cedarwood oil  
CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
Time Report Requested: 08:57:03  
First Dose M/F: 06/15/05 / 06/16/05  
Lab: BAT

ANIMAL ID: 251

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504111

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule

Renal Tubule

Accumulation, Hyaline Droplet

Casts Granular

Degeneration

Mineralization

Nephropathy

Inflammation

Mild

Mild

Minimal

Minimal

Mild

Minimal

\* Liver

\* Skin

SOA Dermis

SOA Epidermis

SOA, Sebaceous GI

SOA Epidermis

Hair Follicle, SOA

SOA

SOA Epidermis

Fibrosis

Hyperkeratosis

Hyperplasia

Hyperplasia

Hyperplasia

Inflammation

Ulcer

Mild

Mild

Moderate

Moderate

Moderate

Chronic Active, Moderate

Moderate

[ Hyperkeratosis TGLs = 2-15 ]

[ Hyperplasia TGLs = 1-14 ]

[ Ulcer TGLs = 3-16 ]

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cedarwood oil  
 CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
 Time Report Requested: 08:57:03  
 First Dose M/F: 06/15/05 / 06/16/05  
 Lab: BAT

ANIMAL ID: 252

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504112

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule

Renal Tubule

Accumulation, Hyaline Droplet

Casts Granular

Degeneration

Mineralization

Nephropathy

Inflammation

Mild

Mild

Minimal

Minimal

Mild

Minimal

\* Liver

\* Skin

SOA Dermis

SOA Epidermis

SOA Epidermis

SOA, Sebaceous GI

Hair Follicle, SOA

SOA

SOA Epidermis

Fibrosis

Hyperkeratosis

Hyperplasia

Hyperplasia

Hyperplasia

Inflammation

Ulcer

Mild

Minimal

Moderate

Moderate

Moderate

Chronic Active, Mild

Minimal

[ Hyperkeratosis TGLs = 2-15 ]

[ Hyperplasia TGLs = 1-14 ]

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cedarwood oil  
CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
Time Report Requested: 08:57:03  
First Dose M/F: 06/15/05 / 06/16/05  
Lab: BAT

ANIMAL ID: 253

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Liver

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule  
Renal Tubule

Accumulation, Hyaline Droplet

Casts Granular

Degeneration

Mineralization

Nephropathy

Mild

Minimal

Minimal

Minimal

Mild

\* Skin

SOA Dermis  
SOA Epidermis  
SOA, Sebaceous GI  
SOA Epidermis  
Hair Follicle, SOA  
SOA

Fibrosis

Hyperkeratosis

Hyperplasia

Hyperplasia

Hyperplasia

Inflammation

Mild

Minimal

Mild

Moderate

Mild

Chronic Active, Mild

[ Hyperkeratosis TGLs = 2-15 ]

[ Hyperplasia TGLs = 1-14 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 254

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Accumulation, Hyaline Droplet

Mild

Renal Tubule

Casts Granular

Moderate

Renal Tubule

Degeneration

Minimal

Nephropathy

Mild

Inflammation

Minimal

\* Liver

\* Skin

SOA Dermis

Fibrosis

Moderate

SOA Epidermis

Hyperkeratosis

Mild

SOA Epidermis

Hyperplasia

Moderate

SOA, Sebaceous GI

Hyperplasia

Moderate

Hair Follicle, SOA

Hyperplasia

Moderate

SOA

Inflammation

Chronic Active, Mild

SOA Epidermis

Ulcer

Moderate

[ Hyperkeratosis TGLs = 2-15 ]

[ Hyperplasia TGLs = 1-14 ]

[ Ulcer TGLs = 3-16 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 255

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Accumulation, Hyaline Droplet

Mild

Renal Tubule

Casts Granular

Minimal

Renal Tubule

Degeneration

Minimal

Mineralization

Minimal

Nephropathy

Mild

Inflammation

Minimal

\* Liver

Fibrosis

Moderate

\* Skin

SOA Dermis

Hyperkeratosis

Moderate

SOA Epidermis

Hyperplasia

Moderate

SOA, Sebaceous GI

Hyperplasia

Moderate

SOA Epidermis

Hyperplasia

Mild

Hair Follicle, SOA

Inflammation

Chronic Active, Moderate

SOA

[ Hyperkeratosis TGLs = 2,3-15+16 ]

[ Hyperplasia TGLs = 1-14 ]



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 256

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Accumulation, Hyaline Droplet

Mild

Renal Tubule

Casts Granular

Minimal

Renal Tubule

Degeneration

Minimal

Mineralization

Minimal

Nephropathy

Mild

Inflammation

Minimal

\* Liver

\* Skin

SOA Dermis

Fibrosis

Moderate

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Moderate

SOA, Sebaceous GI

Hyperplasia

Moderate

Hair Follicle, SOA

Hyperplasia

Mild

SOA

Inflammation

Chronic Active, Mild

SOA Epidermis

Ulcer

Moderate

[ Hyperkeratosis TGLs = 2-15 ]

[ Hyperplasia TGLs = 1-14 ]

[ Ulcer TGLs = 3-16 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 257

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Thyroid Gland

OBSERVATIONS

\* Bone Marrow

Hyperplasia

Minimal

\* Kidney

Accumulation, Hyaline Droplet

Minimal

Renal Tubule

Casts Granular

Mild

Renal Tubule

Degeneration

Minimal

Nephropathy

Mild

\* Liver

Hematopoietic Cell Proliferation

Minimal

Inflammation

Minimal

\* Skin

SOA Dermis

Fibrosis

Mild

SOA Epidermis

Hyperkeratosis

Mild

SOA, Sebaceous GI

Hyperplasia

Moderate

SOA Epidermis

Hyperplasia

Moderate

Hair Follicle, SOA

Hyperplasia

Mild

SOA

Inflammation

Chronic Active, Mild

SOA Epidermis

Ulcer

Mild

[ Hyperkeratosis TGLs = 3-16 ]

[ Hyperplasia TGLs = 1-14 ]

[ Ulcer TGLs = 2-15 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 258

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Liver

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule

Renal Tubule

Accumulation, Hyaline Droplet

Casts Granular

Degeneration

Mineralization

Nephropathy

Mild

Minimal

Minimal

Minimal

Mild

\* Skin

SOA Dermis

SOA Epidermis

SOA, Sebaceous GI

SOA Epidermis

Hair Follicle, SOA

SOA

SOA Epidermis

Fibrosis

Hyperkeratosis

Hyperplasia

Hyperplasia

Hyperplasia

Inflammation

Ulcer

Mild

Minimal

Moderate

Moderate

Minimal

Chronic Active, Moderate

Moderate

[ Hyperkeratosis TGLs = 1-14 ]

[ Hyperplasia TGLs = 2-15 ]

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cedarwood oil  
CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
Time Report Requested: 08:57:03  
First Dose M/F: 06/15/05 / 06/16/05  
Lab: BAT

ANIMAL ID: 259

TRT#: 11  
DOSE: 50 %

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 93  
HISTO: 0504119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule  
Renal Tubule

Accumulation, Hyaline Droplet

Casts Granular

Degeneration

Mineralization

Nephropathy

Inflammation

Mild

Minimal

Minimal

Minimal

Mild

Minimal

\* Liver

\* Skin

SOA Dermis

SOA Epidermis

SOA Epidermis

SOA, Sebaceous GI

Hair Follicle, SOA

SOA

Fibrosis

Hyperkeratosis

Hyperplasia

Hyperplasia

Hyperplasia

Inflammation

Moderate

Minimal

Moderate

Moderate

Minimal

Chronic Active, Mild

[ Hyperkeratosis TGLs = 1-14 ]

[ Hyperplasia TGLs = 2-15 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 260

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Bone Marrow

\* Liver

\* Thyroid Gland

OBSERVATIONS

\* Kidney

Renal Tubule

Renal Tubule

Accumulation, Hyaline Droplet

Casts Granular

Degeneration

Mineralization

Nephropathy

Mild

Mild

Minimal

Minimal

Mild

\* Skin

SOA Dermis

SOA Epidermis

SOA Epidermis

SOA, Sebaceous GI

Hair Follicle, SOA

SOA

SOA Epidermis

Fibrosis

Hyperkeratosis

Hyperplasia

Hyperplasia

Hyperplasia

Inflammation

Ulcer

Mild

Mild

Mild

Mild

Minimal

Chronic Active, Mild

Moderate

[ Hyperkeratosis TGLs = 2-15 ]

[ Hyperplasia TGLs = 1-14 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 261

TRT#: 13

SEX: Male

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Prostate                 | * Seminal Vesicle         |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  |
| * Thymus                    | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                    |                               |                         |
|-------------------|--------------------|-------------------------------|-------------------------|
| * Bone Marrow     |                    | Hyperplasia                   | Minimal                 |
| * Heart           |                    | Cardiomyopathy                | Mild                    |
| * Kidney          |                    | Accumulation, Hyaline Droplet | Moderate                |
|                   | Renal Tubule       | Casts Granular                | Marked                  |
|                   | Renal Tubule       | Degeneration                  | Minimal                 |
|                   |                    | Infiltration Cellular         | Mononuclear CI, Minimal |
|                   |                    | Mineralization                | Mild                    |
|                   |                    | Nephropathy                   | Mild                    |
| * Liver           |                    | Inflammation                  | Minimal                 |
| * Lung            |                    | Inflammation                  | Minimal                 |
|                   |                    | Metaplasia                    | Osseous, Minimal        |
| * Preputial Gland |                    | Inflammation                  | Chronic, Focal, Mild    |
| * Salivary Glands | Submandibul GI     | Vacuolization Cytoplasmic     | Mild                    |
| * Skin            | SOA Dermis         | Fibrosis                      | Mild                    |
|                   | SOA Epidermis      | Hyperkeratosis                | Moderate                |
|                   | SOA, Sebaceous GI  | Hyperplasia                   | Moderate                |
|                   | Hair Follicle, SOA | Hyperplasia                   | Mild                    |
|                   | SOA                | Inflammation                  | Chronic Active, Mild    |
|                   | SOA Epidermis      | Ulcer                         | Moderate                |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20316 - 01

**Test Type:** 90-DAY

**Route:** SKIN APPLICATION

**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014

**Time Report Requested:** 08:57:03

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

**Lab:** BAT

---

**ANIMAL ID:** 261

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 100 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504121

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperkeratosis TGLs = 2-15 ]

[ Ulcer TGLs = 3-16 ]

---

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 262

TRT#: 13

SEX: Male

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Prostate                 |
| * Seminal Vesicle         | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testes                  | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |  |                               |                          |
|-------------------|--|-------------------------------|--------------------------|
| * Heart           |  | Cardiomyopathy                | Minimal                  |
| * Kidney          |  | Accumulation, Hyaline Droplet | Moderate                 |
|                   | Renal Tubule                                 | Casts Granular                | Moderate                 |
|                   | Renal Tubule                                 | Degeneration                  | Minimal                  |
|                   |  | Nephropathy                   | Mild                     |
|                   | [ Accumulation, Hyaline Droplet TGLs = 4-5 ] |                               |                          |
| * Liver           |  | Inflammation                  | Minimal                  |
| * Lung            |  | Inflammation                  | Minimal                  |
| * Preputial Gland |  | Inflammation                  | Chronic, Focal, Minimal  |
| * Salivary Glands | Submandibul GI                               | Vacuolization Cytoplasmic     | Mild                     |
| * Skin            | SOA Dermis                                   | Fibrosis                      | Mild                     |
|                   | SOA Epidermis                                | Hyperkeratosis                | Moderate                 |
|                   | SOA Epidermis                                | Hyperplasia                   | Moderate                 |
|                   | SOA, Sebaceous GI                            | Hyperplasia                   | Moderate                 |
|                   | Hair Follicle, SOA                           | Hyperplasia                   | Moderate                 |
|                   | SOA  | Inflammation                  | Chronic Active, Moderate |
|                   | SOA Epidermis                                | Ulcer                         | Moderate                 |
|                   | [ Hyperkeratosis TGLs = 2-15 ]               |                               |                          |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20316 - 01

**Test Type:** 90-DAY

**Route:** SKIN APPLICATION

**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014

**Time Report Requested:** 08:57:03

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

**Lab:** BAT

---

**ANIMAL ID:** 262

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 100 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504122

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 1-14 ]

[ Ulcer TGLs = 3-16 ]

---

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cedarwood oil  
 CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
 Time Report Requested: 08:57:03  
 First Dose M/F: 06/15/05 / 06/16/05  
 Lab: BAT

ANIMAL ID: 263

TRT#: 13

SEX: Male

DAY ON TEST: 79

DOSE: 100 %

DISP: Moribund Sacrifice

HISTO: 0504123

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Brain                  | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Nose                     | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Preputial Gland          | * Prostate                | * Salivary Glands           |
| * Seminal Vesicle        | * Spleen                   | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Testes                 | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |               |                    |                               |                          |
|---------------|--------------------|-------------------------------|--------------------------|
| * Bone Marrow |                    | Hyperplasia                   | Minimal                  |
| * Epididymis  |                    | Inflammation                  | Minimal                  |
| * Heart       |                    | Cardiomyopathy                | Minimal                  |
| * Kidney      |                    | Accumulation, Hyaline Droplet | Moderate                 |
|               | Renal Tubule       | Casts Granular                | Moderate                 |
|               | Renal Tubule       | Degeneration                  | Minimal                  |
|               |                    | Mineralization                | Minimal                  |
|               |                    | Nephropathy                   | Mild                     |
| * Liver       |                    | Inflammation                  | Minimal                  |
| * Lung        |                    | Infiltration Cellular         | Histiocyte, Minimal      |
| * Skin        | SOA Dermis         | Fibrosis                      | Mild                     |
|               | SOA Epidermis      | Hyperkeratosis                | Moderate                 |
|               | SOA Epidermis      | Hyperplasia                   | Moderate                 |
|               | SOA, Sebaceous GI  | Hyperplasia                   | Moderate                 |
|               | Hair Follicle, SOA | Hyperplasia                   | Mild                     |
|               | SOA                | Inflammation                  | Chronic Active, Moderate |
|               | SOA Epidermis      | Ulcer                         | Moderate                 |

[ Hyperkeratosis TGLs = 1-14 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20316 - 01

**Test Type:** 90-DAY

**Route:** SKIN APPLICATION

**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014

**Time Report Requested:** 08:57:03

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

**Lab:** BAT

---

**ANIMAL ID:** 263

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 79

**DOSE:** 100 %

**DISP:** Moribund Sacrifice

**HISTO:** 0504123

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 2-15 ]

[ Ulcer TGLs = 3-16 ]

---

**PRIMARY CAUSE OF DEATH**

- Skin SOA Epidermis Ulcer

---

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cedarwood oil  
 CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
 Time Report Requested: 08:57:03  
 First Dose M/F: 06/15/05 / 06/16/05  
 Lab: BAT

ANIMAL ID: 264

TRT#: 13

SEX: Male

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504124

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          | * Prostate                |
| * Seminal Vesicle           | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Testes                    | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |                    |                               |                          |
|-------------------|--------------------|-------------------------------|--------------------------|
| * Bone Marrow     |                    | Hyperplasia                   | Minimal                  |
| * Heart           |                    | Cardiomyopathy                | Mild                     |
| * Kidney          |                    | Accumulation, Hyaline Droplet | Moderate                 |
|                   | Renal Tubule       | Casts Granular                | Marked                   |
|                   | Renal Tubule       | Degeneration                  | Minimal                  |
|                   |                    | Mineralization                | Minimal                  |
|                   |                    | Nephropathy                   | Mild                     |
| * Liver           |                    | Inflammation                  | Minimal                  |
| * Lung            |                    | Metaplasia                    | Osseous, Minimal         |
| * Salivary Glands | Submandibul GI     | Vacuolization Cytoplasmic     | Mild                     |
| * Skin            | SOA Dermis         | Fibrosis                      | Moderate                 |
|                   | SOA Epidermis      | Hyperkeratosis                | Moderate                 |
|                   | SOA Epidermis      | Hyperplasia                   | Moderate                 |
|                   | SOA, Sebaceous GI  | Hyperplasia                   | Moderate                 |
|                   | Hair Follicle, SOA | Hyperplasia                   | Mild                     |
|                   | SOA                | Inflammation                  | Chronic Active, Moderate |
|                   | SOA Epidermis      | Ulcer                         | Moderate                 |

[ Hyperkeratosis TGLs = 2-15 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20316 - 01

**Test Type:** 90-DAY

**Route:** SKIN APPLICATION

**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014

**Time Report Requested:** 08:57:03

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

**Lab:** BAT

---

**ANIMAL ID:** 264

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 100 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504124

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 1-14 ]

[ Ulcer TGLs = 3-16 ]

---

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 265

TRT#: 13

SEX: Male

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Bone Marrow
- \* Brain
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testes
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Heart
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Skin
- |  |                    |                               |                          |
|--|--------------------|-------------------------------|--------------------------|
|  |                    |                               |                          |
|  | Renal Tubule       | Cardiomyopathy                | Minimal                  |
|  | Renal Tubule       | Accumulation, Hyaline Droplet | Moderate                 |
|  |                    | Casts Granular                | Moderate                 |
|  |                    | Degeneration                  | Minimal                  |
|  |                    | Mineralization                | Minimal                  |
|  |                    | Nephropathy                   | Mild                     |
|  |                    | Inflammation                  | Minimal                  |
|  |                    | Metaplasia                    | Osseous, Minimal         |
|  | SOA Dermis         | Fibrosis                      | Mild                     |
|  | SOA Epidermis      | Hyperkeratosis                | Moderate                 |
|  | SOA Epidermis      | Hyperplasia                   | Mild                     |
|  | SOA, Sebaceous GI  | Hyperplasia                   | Moderate                 |
|  | Hair Follicle, SOA | Hyperplasia                   | Mild                     |
|  | SOA                | Inflammation                  | Chronic Active, Moderate |
|  | SOA Epidermis      | Ulcer                         | Moderate                 |

[ Hyperkeratosis TGLs = 2-15 ]

[ Hyperplasia TGLs = 1-14 ]

[ Ulcer TGLs = 3-16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 266

TRT#: 13

SEX: Male

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testes
- \* Thymus
- \* Thyroid Gland
- \* Trachea

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Bone Marrow
    - Hyperplasia
    - Minimal
  - \* Heart
    - Cardiomyopathy
    - Minimal
  - \* Kidney
    - Accumulation, Hyaline Droplet
    - Moderate
    - Renal Tubule
    - Casts Granular
    - Marked
    - Renal Tubule
    - Degeneration
    - Minimal
    - Nephropathy
    - Mild
  - \* Liver
    - Inflammation
    - Minimal
    - Necrosis
    - Focal, Minimal
  - \* Lung
    - Inflammation
    - Minimal
    - Metaplasia
    - Osseous, Minimal
  - \* Skin
    - SOA Dermis
    - Fibrosis
    - Mild
    - SOA Epidermis
    - Hyperkeratosis
    - Moderate
    - SOA, Sebaceous GI
    - Hyperplasia
    - Moderate
    - SOA Epidermis
    - Hyperplasia
    - Moderate
    - SOA
    - Inflammation
    - Chronic Active, Mild
- [ Hyperkeratosis TGLs = 2,3-15+16 ]
- [ Hyperplasia TGLs = 1-14 ]
- \* Urinary Bladder
    - Infiltration Cellular
    - Mononuclear CI, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 267

TRT#: 13

SEX: Male

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Testes                 | * Thymus                   |
| * Thyroid Gland           | * Trachea                   |                          |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |          |                    |                               |                      |
|----------|--------------------|-------------------------------|----------------------|
| * Heart  |                    | Cardiomyopathy                | Mild                 |
|          | Epicardium         | Hyperplasia                   | Mild                 |
| * Kidney |                    | Accumulation, Hyaline Droplet | Moderate             |
|          | Renal Tubule       | Casts Granular                | Moderate             |
|          | Renal Tubule       | Degeneration                  | Minimal              |
|          |                    | Mineralization                | Minimal              |
|          |                    | Nephropathy                   | Mild                 |
| * Liver  |                    | Inflammation                  | Minimal              |
| * Lung   |                    | Hemorrhage                    | Moderate             |
|          |                    | Infiltration Cellular         | Histiocyte, Mild     |
|          | Serosa             | Inflammation                  | Granulomatous, Mild  |
|          |                    | Pigmentation                  | Hemosiderin, Mild    |
| * Skin   | SOA Dermis         | Fibrosis                      | Mild                 |
|          | SOA Epidermis      | Hyperkeratosis                | Moderate             |
|          | SOA, Sebaceous GI  | Hyperplasia                   | Moderate             |
|          | SOA Epidermis      | Hyperplasia                   | Moderate             |
|          | Hair Follicle, SOA | Hyperplasia                   | Minimal              |
|          | SOA                | Inflammation                  | Chronic Active, Mild |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20316 - 01

**Test Type:** 90-DAY

**Route:** SKIN APPLICATION

**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014

**Time Report Requested:** 08:57:03

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

**Lab:** BAT

---

**ANIMAL ID:** 267

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 100 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504127

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperkeratosis TGLs = 3-15 ]

[ Hyperplasia TGLs = 2-14 ]

\* Urinary Bladder

Serosa

Mineralization

Focal, Minimal

---

Animal Note: TGL-1 has no histologic correlate.

---

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cedarwood oil  
 CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
 Time Report Requested: 08:57:03  
 First Dose M/F: 06/15/05 / 06/16/05  
 Lab: BAT

ANIMAL ID: 268

TRT#: 13

SEX: Male

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel           | * Bone                      |
| * Brain                  | * Epididymis               | * Esophagus              | * Eye                       |
| * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Liver                     |
| * Lung                   | * Lymph Node, Mesenteric   | * Mammary Gland          | * Nose                      |
| * Parathyroid Gland      | * Pituitary Gland          | * Preputial Gland        | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Spleen                 | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Testes                   | * Thymus                 | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                          |                             |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                           |                    |                               |                          |
|---------------------------|--------------------|-------------------------------|--------------------------|
| * Bone Marrow             |                    | Hyperplasia                   | Minimal                  |
| * Heart                   |                    | Cardiomyopathy                | Minimal                  |
| * Intestine Large, Rectum |                    | Parasite Metazoan             | Minimal                  |
| * Kidney                  |                    | Accumulation, Hyaline Droplet | Moderate                 |
|                           | Renal Tubule       | Casts Granular                | Moderate                 |
|                           | Renal Tubule       | Degeneration                  | Minimal                  |
|                           |                    | Mineralization                | Minimal                  |
|                           |                    | Nephropathy                   | Mild                     |
| * Pancreas                |                    | Atrophy                       | Mild                     |
|                           |                    | Infiltration Cellular         | Mononuclear CI, Minimal  |
| * Skin                    | SOA Dermis         | Fibrosis                      | Moderate                 |
|                           | SOA Epidermis      | Hyperkeratosis                | Moderate                 |
|                           | SOA Epidermis      | Hyperplasia                   | Moderate                 |
|                           | SOA, Sebaceous GI  | Hyperplasia                   | Moderate                 |
|                           | Hair Follicle, SOA | Hyperplasia                   | Minimal                  |
|                           | SOA                | Inflammation                  | Chronic Active, Moderate |
|                           | SOA Epidermis      | Ulcer                         | Moderate                 |

[ Hyperkeratosis TGLs = 2-15 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20316 - 01

**Test Type:** 90-DAY

**Route:** SKIN APPLICATION

**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014

**Time Report Requested:** 08:57:03

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

**Lab:** BAT

---

**ANIMAL ID:** 268

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 100 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504128

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 1-14 ]

[ Ulcer TGLs = 3-16 ]

---

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 269

TRT#: 13

SEX: Male

DAY ON TEST: 79

DOSE: 100 %

DISP: Moribund Sacrifice

HISTO: 0504129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lung
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testes
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Bone Marrow
- \* Epididymis
- \* Heart
- \* Kidney
- \* Liver
- \* Nose
- \* Pancreas
- \* Skin
- Renal Tubule
- Renal Tubule
- SOA Dermis
- SOA Epidermis
- SOA Epidermis
- SOA, Sebaceous GI
- Hair Follicle, SOA
- SOA
- SOA Epidermis
- Hyperplasia
- Inflammation
- Cardiomyopathy
- Accumulation, Hyaline Droplet
- Casts Granular
- Degeneration
- Mineralization
- Nephropathy
- Inflammation
- Inflammation
- Infiltration Cellular
- Fibrosis
- Hyperkeratosis
- Hyperplasia
- Hyperplasia
- Hyperplasia
- Inflammation
- Ulcer
- Mild
- Minimal
- Minimal
- Moderate
- Marked
- Minimal
- Minimal
- Mild
- Minimal
- Chronic Active, Minimal
- Mononuclear CI, Minimal
- Moderate
- Moderate
- Moderate
- Moderate
- Mild
- Chronic Active, Moderate
- Moderate

[ Hyperkeratosis TGLs = 1-14 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20316 - 01

**Test Type:** 90-DAY

**Route:** SKIN APPLICATION

**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014

**Time Report Requested:** 08:57:03

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

**Lab:** BAT

---

**ANIMAL ID:** 269

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 79

**DOSE:** 100 %

**DISP:** Moribund Sacrifice

**HISTO:** 0504129

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 2-15 ]

[ Ulcer TGLs = 3-16 ]

---

**PRIMARY CAUSE OF DEATH**

- Skin SOA Epidermis Ulcer

---

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 270

TRT#: 13

SEX: Male

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Prostate
- \* Seminal Vesicle
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testes
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Bone Marrow
  - \* Heart
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Nose
  - \* Pancreas
  - \* Preputial Gland
  - \* Salivary Glands
  - \* Skin
- Renal Tubule
- Renal Tubule
- [ Accumulation, Hyaline Droplet TGLs = 4-5 ]
- [ Nephropathy TGLs = 4-5 ]
- Hyperplasia
- Cardiomyopathy
- Accumulation, Hyaline Droplet
- Casts Granular
- Degeneration
- Mineralization
- Nephropathy
- Inflammation
- Inflammation
- Inflammation
- Infiltration Cellular
- Inflammation
- Vacuolization Cytoplasmic
- Fibrosis
- Hyperkeratosis
- Hyperplasia
- Hyperplasia
- Minimal
- Minimal
- Moderate
- Marked
- Minimal
- Minimal
- Mild
- Minimal
- Minimal
- Chronic Active, Minimal
- Mononuclear CI, Mild
- Chronic, Focal, Minimal
- Mild
- Moderate
- Moderate
- Moderate
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

---

**ANIMAL ID:** 270

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 100 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504130

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Hair Follicle, SOA

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Moderate

SOA Epidermis

Ulcer

Moderate

[ Hyperkeratosis TGLs = 2-15 ]

[ Hyperplasia TGLs = 1-14 ]

[ Ulcer TGLs = 3-16 ]

---

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 271

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504131

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart	Cardiomyopathy	Minimal
* Kidney	Mineralization	Minimal
* Liver	Inflammation	Minimal
* Lung	Inflammation	Minimal



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 272

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lung                   | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Ovary                  | * Parathyroid Gland        |
| * Salivary Glands         | * Skin                      | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Uterus                  |                             |                          |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                       |                         |
|-------------------|-----------------------|-------------------------|
| * Heart           | Cardiomyopathy        | Minimal                 |
|                   | Inflammation          | Chronic Active, Mild    |
| * Liver           | Inflammation          | Minimal                 |
| * Pancreas        | Infiltration Cellular | Mononuclear CI, Minimal |
| * Pituitary Gland | Cyst                  | Minimal                 |
| * Urinary Bladder | Infiltration Cellular | Mononuclear CI, Minimal |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 273

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Ovary                     | * Parathyroid Gland      | * Salivary Glands          |
| * Skin                    | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                       |                         |
|-------------------|-----------------------|-------------------------|
| * Heart           | Cardiomyopathy        | Minimal                 |
| * Liver           | Inflammation          | Minimal                 |
| * Lung            | Inflammation          | Minimal                 |
|                   | Metaplasia            | Osseous, Minimal        |
| * Pancreas        | Infiltration Cellular | Mononuclear Cl, Minimal |
| * Pituitary Gland | Cyst                  | Minimal                 |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 274

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lung                   | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nose                      | * Ovary                  | * Parathyroid Gland        | * Pituitary Gland         |
| * Skin                      | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thymus                    | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |
| * Uterus                    |                          |                            |                           |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                |                                  |                         |
|-------------------|----------------|----------------------------------|-------------------------|
| * Clitoral Gland  |                | Inflammation                     | Chronic Active, Mild    |
| * Heart           |                | Cardiomyopathy                   | Minimal                 |
| * Liver           |                | Hematopoietic Cell Proliferation | Minimal                 |
|                   |                | Inflammation                     | Minimal                 |
| * Pancreas        |                | Infiltration Cellular            | Mononuclear CI, Minimal |
| * Salivary Glands | Submandibul GI | Vacuolization Cytoplasmic        | Minimal                 |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 275

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Ovary                     | * Parathyroid Gland      | * Pituitary Gland          |
| * Salivary Glands         | * Skin                      | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Uterus                  |                             |                          |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                       |                         |
|-------------------|-----------------------|-------------------------|
| * Heart           | Cardiomyopathy        | Minimal                 |
| * Kidney          | Mineralization        | Minimal                 |
| * Liver           | Inflammation          | Minimal                 |
| * Pancreas        | Infiltration Cellular | Mononuclear CI, Mild    |
| * Urinary Bladder | Infiltration Cellular | Mononuclear CI, Minimal |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 276

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     | * Ovary                   |
| * Parathyroid Gland         | * Pituitary Gland        | * Skin                     | * Spleen                  |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        | * Uterus                   |                           |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |  |                            |                             |
|-------------------|--|----------------------------|-----------------------------|
| * Clitoral Gland  |  | Inflammation               | Chronic Active, Focal, Mild |
| * Heart           |  | Cardiomyopathy             | Minimal                     |
| * Kidney          |  | Infarct                    | Chronic, Focal              |
|                   |  | Mineralization             | Minimal                     |
| * Liver           |  | Hepatodiaphragmatic Nodule |                             |
|                   |  | Inflammation               | Minimal                     |
|                   | [ Hepatodiaphragmatic Nodule TGLs = 1-13 ] |                            |                             |
| * Lung            |  | Inflammation               | Minimal                     |
| * Pancreas        |  | Infiltration Cellular      | Mononuclear CI, Mild        |
| * Salivary Glands | Submandibul GI                             | Vacuolization Cytoplasmic  | Minimal                     |

\* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cedarwood oil  
CAS Number: 8000-27-9

Date Report Requested: 01/20/2014  
Time Report Requested: 08:57:03  
First Dose M/F: 06/15/05 / 06/16/05  
Lab: BAT

ANIMAL ID: 277

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Infiltration Cellular	Minimal
* Clitoral Gland	Infiltration Cellular	Mononuclear CI, Mild
* Heart	Cardiomyopathy	Minimal
* Liver	Inflammation	Minimal
* Urinary Bladder	Infiltration Cellular	Mononuclear CI, Minimal

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 278

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504138

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Bone Marrow
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lung
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Uterus

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |  |                                  |                         |
|--|----------------------------------|-------------------------|
| * Heart                                    | Cardiomyopathy                   | Minimal                 |
| * Kidney                                   | Mineralization                   | Minimal                 |
| * Liver                                    | Hematopoietic Cell Proliferation | Minimal                 |
|  | Hepatodiaphragmatic Nodule       |                         |
|  | Inflammation                     | Minimal                 |
|  |                                  |                         |
| [ Hepatodiaphragmatic Nodule TGLs = 1-13 ] |                                  |                         |
| * Pancreas                                 | Infiltration Cellular            | Mononuclear CI, Minimal |
| * Urinary Bladder                          | Infiltration Cellular            | Mononuclear CI, Minimal |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 279

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          |
| * Skin                    | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Thyroid Gland             | * Urinary Bladder        | * Uterus                   |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |            |                      |                       |                         |
|------------|----------------------|-----------------------|-------------------------|
| * Heart    |                      | Cardiomyopathy        | Minimal                 |
| * Kidney   |                      | Mineralization        | Minimal                 |
| * Liver    |                      | Inflammation          | Minimal                 |
| * Ovary    | Left                 | Cyst                  | Moderate                |
|            | [ Cyst TGLs = 1-13 ] |                       |                         |
| * Pancreas |                      | Infiltration Cellular | Mononuclear CI, Minimal |
| * Trachea  |                      | Infiltration Cellular | Mononuclear CI, Minimal |



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 280

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: UNTREATED

DISP: Terminal Sacrifice

HISTO: 0504140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Bone Marrow
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Kidney
- \* Lung
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pancreas
- \* Pituitary Gland
- \* Skin
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Uterus

MISSING

- \* Lymph Node, Mandibular
- \* Parathyroid Gland

OBSERVATIONS

- \* Heart
- Cardiomyopathy
- Minimal
- \* Liver
- Inflammation
- Minimal
- \* Salivary Glands
- Submandibul GI
- Vacuolization Cytoplasmic
- Minimal
- \* Urinary Bladder
- Infiltration Cellular
- Mononuclear CI, Minimal

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 281

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Blood Vessel              | * Bone                   | * Bone Marrow              |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Ovary                   | * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          |
| * Skin                    | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Trachea                   | * Urinary Bladder        | * Uterus                   |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                  |                           |                         |
|------------------|---------------------------|-------------------------|
| * Adrenal Cortex | Infiltration Cellular     | Mononuclear CI, Minimal |
| * Kidney         | Mineralization            | Minimal                 |
| * Liver          | Inflammation              | Minimal                 |
| * Nose           | Vacuolization Cytoplasmic | Moderate                |
| * Pancreas       | Infiltration Cellular     | Mononuclear CI, Minimal |
| * Thyroid Gland  | Infiltration Cellular     | Mononuclear CI, Minimal |
|                  | Ultimobranchial Cyst      |                         |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 282

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lung                   | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Ovary                  | * Parathyroid Gland        |
| * Pituitary Gland         | * Skin                      | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         | * Uterus                    |                          |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |  |                            |                         |
|-------------------|--|----------------------------|-------------------------|
| * Heart           |  | Cardiomyopathy             | Minimal                 |
| * Liver           |  | Hepatodiaphragmatic Nodule |                         |
|                   |  | Inflammation               | Minimal                 |
|                   | [ Hepatodiaphragmatic Nodule TGLs = 1-13 ] |                            |                         |
| * Pancreas        |  | Infiltration Cellular      | Mononuclear CI, Minimal |
| * Salivary Glands | Submandibul GI                             | Vacuolization Cytoplasmic  | Mild                    |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 283

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Bone Marrow
- \* Eye
- \* Intestine Small, Duodenum
- \* Kidney
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Adrenal Medulla
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus
- \* Uterus
- \* Blood Vessel
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                           |                   |                  |
|---------------------------|-------------------|------------------|
| * Heart                   | Cardiomyopathy    | Minimal          |
| * Intestine Large, Rectum | Parasite Metazoan | Minimal          |
| * Liver                   | Inflammation      | Minimal          |
| * Lung                    | Metaplasia        | Osseous, Minimal |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 284

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lung                   | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Ovary                  | * Pancreas                 |
| * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        | * Skin                     |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | * Uterus                   |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |         |                |         |
|---------|----------------|---------|
| * Heart | Cardiomyopathy | Minimal |
| * Liver | Inflammation   | Minimal |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 285

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504145

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Liver                  | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Ovary                  | * Pancreas                 |
| * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        | * Skin                     |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Trachea                 | * Uterus                    |                          |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                       |                      |
|-------------------|-----------------------|----------------------|
| * Heart           | Cardiomyopathy        | Minimal              |
| * Lung            | Inflammation          | Minimal              |
| * Thyroid Gland   | Ultimobranchial Cyst  |                      |
| * Urinary Bladder | Infiltration Cellular | Mononuclear CI, Mild |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 286

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Blood Vessel           | * Bone                     | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lung                   | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nose                      | * Ovary                  | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Skin                   | * Spleen                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Trachea                  | * Urinary Bladder         |
| * Uterus                    |                          |                            |                           |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                |                           |                      |
|-------------------|----------------|---------------------------|----------------------|
| * Adrenal Cortex  |                | Mineralization            | Mild                 |
| * Heart           |                | Cardiomyopathy            | Minimal              |
| * Liver           |                | Inflammation              | Minimal              |
| * Salivary Glands | Submandibul GI | Vacuolization Cytoplasmic | Minimal              |
| * Thyroid Gland   |                | Infiltration Cellular     | Mononuclear CI, Mild |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 287

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Ovary                     | * Parathyroid Gland      | * Skin                     |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Trachea                 | * Uterus                    |                          |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                |                           |                         |
|-------------------|----------------|---------------------------|-------------------------|
| * Heart           |                | Cardiomyopathy            | Minimal                 |
| * Kidney          |                | Mineralization            | Minimal                 |
| * Liver           |                | Inflammation              | Mild                    |
| * Pancreas        |                | Infiltration Cellular     | Mononuclear CI, Minimal |
| * Pituitary Gland |                | Cyst                      | Minimal                 |
| * Salivary Glands | Submandibul GI | Vacuolization Cytoplasmic | Mild                    |
| * Thyroid Gland   |                | Ultimobranchial Cyst      |                         |
| * Urinary Bladder |                | Infiltration Cellular     | Mononuclear CI, Minimal |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 288

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     |
| * Ovary                   | * Pancreas                  | * Parathyroid Gland      | * Skin                     |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | * Uterus                   |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |   |                     |
|-------------------|---|---------------------|
| * Heart           | Cardiomyopathy                              | Minimal             |
| * Kidney          | Mineralization                              | Minimal             |
| * Liver           | Inflammation                                | Minimal             |
| * Lung            | Infiltration Cellular                       | Histiocyte, Minimal |
| * Pituitary Gland | Cyst  | Minimal             |
| * Salivary Glands | Submandibul GI<br>Vacuolization Cytoplasmic | Minimal             |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 289

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     |
| * Ovary                   | * Pancreas                  | * Pituitary Gland        | * Salivary Glands          |
| * Skin                    | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

MISSING

- |                          |                     |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

- |          |                |         |
|----------|----------------|---------|
| * Heart  | Cardiomyopathy | Minimal |
| * Kidney | Mineralization | Minimal |
|          | Nephropathy    | Minimal |
| * Liver  | Inflammation   | Minimal |
| * Lung   | Inflammation   | Minimal |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 290

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 0 %

DISP: Terminal Sacrifice

HISTO: 0504150

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Ovary                     | * Parathyroid Gland      | * Pituitary Gland          |
| * Salivary Glands         | * Skin                      | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         | * Uterus                    |                          |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |            |                       |                         |
|------------|-----------------------|-------------------------|
| * Heart    | Cardiomyopathy        | Minimal                 |
| * Kidney   | Mineralization        | Minimal                 |
| * Liver    | Inflammation          | Minimal                 |
| * Pancreas | Infiltration Cellular | Mononuclear CI, Minimal |

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

---

**ANIMAL ID:** 291

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504151

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

---

**OBSERVATIONS**

Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperplasia

Minimal

Thyroid Gland

Ultimobranchial Cyst

---

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Cedarwood oil  
**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014  
**Time Report Requested:** 08:57:03  
**First Dose M/F:** 06/15/05 / 06/16/05  
**Lab:** BAT

---

**ANIMAL ID:** 292

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504152

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

\* Skin

Thyroid Gland

---

**OBSERVATIONS**

Liver

Inflammation

Minimal

---

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Cedarwood oil  
**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014  
**Time Report Requested:** 08:57:03  
**First Dose M/F:** 06/15/05 / 06/16/05  
**Lab:** BAT

---

**ANIMAL ID:** 293

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504153

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

\* Skin

Thyroid Gland

---

**OBSERVATIONS**

Liver

Inflammation

Minimal

---

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Cedarwood oil  
**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014  
**Time Report Requested:** 08:57:03  
**First Dose M/F:** 06/15/05 / 06/16/05  
**Lab:** BAT

---

**ANIMAL ID:** 294

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504154

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

\* Skin

Thyroid Gland

---

**OBSERVATIONS**

Liver

Inflammation

Minimal

---

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

**ANIMAL ID:** 295

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504155

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone Marrow

\* Skin

Thyroid Gland

**OBSERVATIONS**

Liver

Inflammation

Minimal

Mesentery

Fat

Inflammation

Granulomatous, Chronic Active, Moderate

Mineralization

Mild

Necrosis

Moderate

[ Inflammation TGLs = 1-13 ]



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

---

**ANIMAL ID:** 296

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504156

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Thyroid Gland

---

**OBSERVATIONS**

Liver		Inflammation	Minimal
* Skin	SOA Epidermis	Hyperkeratosis	Minimal
	SOA Epidermis	Hyperplasia	Minimal

---

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

---

**ANIMAL ID:** 297

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504157

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Thyroid Gland

---

**OBSERVATIONS**

Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperplasia

Minimal

---

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

---

**ANIMAL ID:** 298

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504158

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

---

**OBSERVATIONS**

Liver

Inflammation

Mild

\* Skin

SOA Epidermis

Hyperplasia

Minimal

Thyroid Gland

Ultimobranchial Cyst

---

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Cedarwood oil  
**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014  
**Time Report Requested:** 08:57:03  
**First Dose M/F:** 06/15/05 / 06/16/05  
**Lab:** BAT

---

**ANIMAL ID:** 299

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504159

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

\* Skin

Thyroid Gland

---

**OBSERVATIONS**

Liver

Inflammation

Minimal

---

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

---

**ANIMAL ID:** 300

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 6.25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504160

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

\* Skin

Thyroid Gland

---

**OBSERVATIONS**

Liver

Inflammation

Minimal

---

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Cedarwood oil  
**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014  
**Time Report Requested:** 08:57:03  
**First Dose M/F:** 06/15/05 / 06/16/05  
**Lab:** BAT

---

**ANIMAL ID:** 301

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 12.5 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504161

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

\* Skin

\* Thyroid Gland

---

**OBSERVATIONS**

Liver

Inflammation

Minimal

---

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

---

**ANIMAL ID:** 302

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 12.5 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504162

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

\* Thyroid Gland

---

**OBSERVATIONS**

Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Minimal

---

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Cedarwood oil  
**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014  
**Time Report Requested:** 08:57:03  
**First Dose M/F:** 06/15/05 / 06/16/05  
**Lab:** BAT

---

**ANIMAL ID:** 303

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 12.5 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504163

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Liver

\* Skin

\* Thyroid Gland

---



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

**ANIMAL ID:** 304

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 12.5 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504164

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone Marrow

\* Thyroid Gland

**OBSERVATIONS**

Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Mild

SOA, Sebaceous GI

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Minimal

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

**ANIMAL ID:** 305

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 12.5 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504165

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone Marrow

\* Thyroid Gland

**OBSERVATIONS**

Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Mild

SOA, Sebaceous GI

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Minimal

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

---

**ANIMAL ID:** 306

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 12.5 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504166

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

\* Thyroid Gland

---

**OBSERVATIONS**

Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Mild

SOA

Inflammation

Chronic Active, Minimal

---

**Experiment Number:** 20316 - 01

**Test Type:** 90-DAY

**Route:** SKIN APPLICATION

**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

**CAS Number:** 8000-27-9

**Date Report Requested:** 01/20/2014

**Time Report Requested:** 08:57:03

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

**Lab:** BAT

---

**ANIMAL ID:** 307

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 12.5 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504167

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

\* Skin

\* Thyroid Gland

---

**OBSERVATIONS**

Liver

Inflammation

Minimal

---

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 308

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 0504168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

\* Thyroid Gland

OBSERVATIONS

Liver

Inflammation

Minimal

\* Skin

SOA Dermis

Fibrosis

Minimal

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Mild

SOA, Sebaceous GI

Hyperplasia

Minimal

Hair Follicle, SOA

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Minimal

SOA Epidermis

Ulcer

Mild

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

[ Ulcer TGLs = 3-15 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

---

**ANIMAL ID:** 309

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 12.5 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504169

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

\* Thyroid Gland

---

**OBSERVATIONS**

Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Minimal

---

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

**ANIMAL ID:** 310

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 12.5 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504170

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone Marrow

\* Thyroid Gland

**OBSERVATIONS**

Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Mild

SOA, Sebaceous GI

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Minimal

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 311

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Bone Marrow

Salivary Glands

\* Thyroid Gland

OBSERVATIONS

\* Liver

\* Skin

SOA Dermis

SOA Epidermis

SOA, Sebaceous GI

SOA Epidermis

Hair Follicle, SOA

SOA

Inflammation

Fibrosis

Hyperkeratosis

Hyperplasia

Hyperplasia

Hyperplasia

Inflammation

Minimal

Mild

Minimal

Mild

Mild

Mild

Chronic Active, Mild

[ Hyperkeratosis TGLs = 1-13 ]

[ Hyperplasia TGLs = 2-14 ]



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 312

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Bone Marrow

Salivary Glands

\* Thyroid Gland

OBSERVATIONS

\* Liver

\* Skin

Inflammation

Minimal

Fibrosis

Minimal

Hyperkeratosis

Minimal

SOA Dermis

SOA Epidermis

SOA, Sebaceous GI

SOA Epidermis

Hair Follicle, SOA

SOA

Hyperplasia

Minimal

Hyperplasia

Mild

Hyperplasia

Minimal

Inflammation

Chronic Active, Minimal

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 313

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504173

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Salivary Glands

\* Thyroid Gland

**OBSERVATIONS**

\* Bone Marrow

\* Liver

\* Skin

Hyperplasia

Inflammation

Fibrosis

Hyperkeratosis

Hyperplasia

Hyperplasia

Inflammation

Minimal

Minimal

Minimal

Mild

Mild

Moderate

Chronic Active, Minimal

[ Hyperplasia TGLs = 1-13 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

**ANIMAL ID:** 314

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 25 %

**DISP:** Terminal Sacrifice

**HISTO:** 0504174

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Bone Marrow

Salivary Glands

\* Thyroid Gland

**OBSERVATIONS**

\* Liver

\* Skin

SOA Dermis

SOA Epidermis

SOA Epidermis

SOA, Sebaceous GI

Hair Follicle, SOA

SOA

Inflammation

Fibrosis

Hyperkeratosis

Hyperplasia

Hyperplasia

Hyperplasia

Inflammation

Minimal

Minimal

Minimal

Mild

Mild

Mild

Chronic Active, Minimal

[ Hyperkeratosis TGLs = 1-13 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 315

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504175

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Liver Salivary Glands

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Minimal
* Skin	SOA Epidermis	Hyperkeratosis	Minimal
	SOA Epidermis	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Hair Follicle, SOA	Hyperplasia	Mild
	SOA	Inflammation	Chronic Active, Mild
	[ Hyperkeratosis TGLs = 2-14 ]		
	[ Hyperplasia TGLs = 1-13 ]		
* Thyroid Gland		Ultimobranchial Cyst	

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 316

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Bone Marrow

Salivary Glands

OBSERVATIONS

\* Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Minimal

SOA, Sebaceous GI

Hyperplasia

Minimal

Hair Follicle, SOA

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Minimal

[ Hyperplasia TGLs = 1-13 ]

\* Thyroid Gland

Ultimobranchial Cyst

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 317

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504177

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Bone Marrow

Salivary Glands

\* Thyroid Gland

**OBSERVATIONS**

\* Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Mild

SOA, Sebaceous GI

Hyperplasia

Mild

Hair Follicle, SOA

Hyperplasia

Mild

SOA

Inflammation

Chronic Active, Minimal

[ Hyperkeratosis TGLs = 1-13 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 318

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Bone Marrow

Salivary Glands

OBSERVATIONS

\* Liver

Inflammation

Minimal

\* Skin

SOA Dermis

Fibrosis

Minimal

SOA Epidermis

Hyperkeratosis

Mild

SOA, Sebaceous GI

Hyperplasia

Mild

SOA Epidermis

Hyperplasia

Moderate

Hair Follicle, SOA

Hyperplasia

Mild

SOA

Inflammation

Chronic Active, Minimal

SOA Epidermis

Ulcer

Moderate

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

[ Ulcer TGLs = 3-15 ]

\* Thyroid Gland

Ultimobranchial Cyst

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 319

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504179

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Bone Marrow

\* Liver

Salivary Glands

\* Thyroid Gland

**OBSERVATIONS**

\* Skin

SOA Dermis

Fibrosis

Minimal

SOA Epidermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Mild

SOA, Sebaceous GI

Hyperplasia

Mild

Hair Follicle, SOA

Hyperplasia

Mild

SOA

Inflammation

Chronic Active, Minimal

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 320

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 0504180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Bone Marrow

Salivary Glands

\* Thyroid Gland

OBSERVATIONS

\* Liver

\* Skin

Inflammation

Minimal

Fibrosis

Minimal

SOA Dermis

Hyperkeratosis

Minimal

SOA Epidermis

Hyperplasia

Mild

SOA Epidermis

Hair Follicle, SOA

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Minimal

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 321

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Bone Marrow

\* Liver

Salivary Glands

OBSERVATIONS

\* Skin

SOA Dermis

Fibrosis

Mild

SOA Epidermis

Hyperkeratosis

Moderate

SOA Epidermis

Hyperplasia

Moderate

SOA, Sebaceous GI

Hyperplasia

Moderate

Hair Follicle, SOA

Hyperplasia

Moderate

SOA

Inflammation

Chronic Active, Moderate

SOA Epidermis

Ulcer

Mild

[ Hyperkeratosis TGLs = 2,3-14+15 ]

[ Hyperplasia TGLs = 1-13 ]

\* Thyroid Gland

Ultimobranchial Cyst

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 322

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Liver

Salivary Glands

\* Thyroid Gland

OBSERVATIONS

\* Bone Marrow

\* Skin

SOA Dermis

SOA Epidermis

SOA, Sebaceous GI

SOA Epidermis

Hair Follicle, SOA

SOA

Hyperplasia

Fibrosis

Hyperkeratosis

Hyperplasia

Hyperplasia

Hyperplasia

Inflammation

Minimal

Mild

Moderate

Moderate

Moderate

Mild

Chronic Active, Mild

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 323

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Bone Marrow

Salivary Glands

\* Thyroid Gland

OBSERVATIONS

\* Liver

\* Skin

SOA Epidermis

SOA Epidermis

SOA, Sebaceous GI

Hair Follicle, SOA

SOA

SOA Epidermis

Inflammation

Hyperkeratosis

Hyperplasia

Hyperplasia

Hyperplasia

Inflammation

Ulcer

Minimal

Mild

Moderate

Moderate

Moderate

Chronic Active, Moderate

Mild

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 324

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Bone Marrow

\* Liver

Salivary Glands

\* Thyroid Gland

OBSERVATIONS

\* Skin

SOA Dermis

Fibrosis

Mild

SOA Epidermis

Hyperkeratosis

Moderate

SOA, Sebaceous GI

Hyperplasia

Moderate

SOA Epidermis

Hyperplasia

Moderate

Hair Follicle, SOA

Hyperplasia

Minimal

SOA

Inflammation

Chronic Active, Mild

SOA Epidermis

Ulcer

Moderate

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

[ Ulcer TGLs = 3-15 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 325

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Bone Marrow

\* Liver

Salivary Glands

OBSERVATIONS

\* Skin

SOA Dermis

Fibrosis

Mild

SOA Epidermis

Hyperkeratosis

Mild

SOA Epidermis

Hyperplasia

Moderate

SOA, Sebaceous GI

Hyperplasia

Moderate

Hair Follicle, SOA

Hyperplasia

Mild

SOA

Inflammation

Chronic Active, Moderate

[ Hyperplasia TGLs = 1-13 ]

\* Thyroid Gland

Ultimobranchial Cyst

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 326

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Bone Marrow

Salivary Glands

OBSERVATIONS

\* Liver

Inflammation

Minimal

\* Skin

SOA Dermis

Fibrosis

Minimal

SOA Epidermis

Hyperkeratosis

Mild

SOA Epidermis

Hyperplasia

Mild

SOA, Sebaceous GI

Hyperplasia

Moderate

Hair Follicle, SOA

Hyperplasia

Moderate

SOA

Inflammation

Chronic Active, Mild

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

\* Thyroid Gland

Ultimobranchial Cyst

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 327

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504187

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Bone Marrow

Salivary Glands

\* Thyroid Gland

**OBSERVATIONS**

\* Liver

\* Skin

SOA Dermis

SOA Epidermis

SOA, Sebaceous GI

SOA Epidermis

Hair Follicle, SOA

SOA

Inflammation

Fibrosis

Hyperkeratosis

Hyperplasia

Hyperplasia

Hyperplasia

Inflammation

Minimal

Minimal

Mild

Mild

Moderate

Moderate

Chronic Active, Mild

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 328

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504188

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Bone Marrow

\* Liver

Salivary Glands

\* Thyroid Gland

**OBSERVATIONS**

\* Skin

SOA Dermis

Fibrosis

Mild

SOA Epidermis

Hyperkeratosis

Moderate

SOA Epidermis

Hyperplasia

Moderate

SOA, Sebaceous GI

Hyperplasia

Moderate

Hair Follicle, SOA

Hyperplasia

Marked

SOA

Inflammation

Chronic Active, Moderate

[ Hyperkeratosis TGLs = 2,3-14+15 ]

[ Hyperplasia TGLs = 1-13 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 329

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504189

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Bone Marrow

Salivary Glands

\* Thyroid Gland

**OBSERVATIONS**

\* Liver

Inflammation

Minimal

\* Skin

SOA Epidermis

Hyperkeratosis

Mild

SOA, Sebaceous GI

Hyperplasia

Moderate

SOA Epidermis

Hyperplasia

Mild

Hair Follicle, SOA

Hyperplasia

Marked

SOA

Inflammation

Chronic Active, Minimal

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 330

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 0504190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Salivary Glands

\* Thyroid Gland

OBSERVATIONS

\* Bone Marrow

\* Liver

\* Skin

SOA Dermis

SOA Epidermis

SOA, Sebaceous GI

SOA Epidermis

Hair Follicle, SOA

SOA

SOA Epidermis

Hyperplasia

Inflammation

Fibrosis

Hyperkeratosis

Hyperplasia

Hyperplasia

Hyperplasia

Inflammation

Ulcer

Minimal

Minimal

Mild

Moderate

Moderate

Moderate

Moderate

Chronic Active, Moderate

Mild

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 331

TRT#: 14

SEX: Female

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    |
| * Ovary                     | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | * Uterus                  |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                    |                |                      |
|-------------------|--------------------|----------------|----------------------|
| * Bone Marrow     |                    | Hyperplasia    | Minimal              |
| * Heart           |                    | Cardiomyopathy | Minimal              |
| * Kidney          |                    | Mineralization | Minimal              |
| * Lung            |                    | Inflammation   | Minimal              |
| * Salivary Glands | Submandibul GI     | Ectopic Tissue | Minimal              |
| * Skin            | SOA Dermis         | Fibrosis       | Mild                 |
|                   | SOA Epidermis      | Hyperkeratosis | Moderate             |
|                   | SOA Epidermis      | Hyperplasia    | Moderate             |
|                   | SOA, Sebaceous GI  | Hyperplasia    | Moderate             |
|                   | Hair Follicle, SOA | Hyperplasia    | Marked               |
|                   | SOA                | Inflammation   | Chronic Active, Mild |
|                   | SOA Epidermis      | Ulcer          | Moderate             |

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

[ Ulcer TGLs = 3-15 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 332

TRT#: 14

SEX: Female

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Bone Marrow
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Liver
- \* Lung
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thymus
- \* Thyroid Gland
- \* Urinary Bladder
- \* Uterus
- \* Trachea

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Heart
- \* Kidney
- \* Pancreas
- \* Skin
- SOA Dermis
- SOA Epidermis
- SOA Epidermis
- SOA, Sebaceous GI
- Hair Follicle, SOA
- SOA
- SOA Epidermis
- Cardiomyopathy
- Mineralization
- Infiltration Cellular
- Fibrosis
- Hyperkeratosis
- Hyperplasia
- Hyperplasia
- Hyperplasia
- Hyperplasia
- Inflammation
- Ulcer
- Minimal
- Minimal
- Mononuclear CI, Minimal
- Mild
- Moderate
- Moderate
- Moderate
- Marked
- Chronic Active, Mild
- Moderate

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

[ Ulcer TGLs = 3-15 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 333

TRT#: 14

SEX: Female

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lung
- \* Ovary
- \* Salivary Glands
- \* Thymus
- \* Uterus
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Spleen
- \* Thyroid Gland
- \* Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Skin
- SOA Dermis
- SOA Epidermis
- SOA Epidermis
- SOA, Sebaceous GI
- Hair Follicle, SOA
- SOA
- SOA Epidermis
- Hyperplasia
- Cardiomyopathy
- Mineralization
- Nephropathy
- Inflammation
- Fibrosis
- Hyperkeratosis
- Hyperplasia
- Hyperplasia
- Hyperplasia
- Inflammation
- Ulcer
- Minimal
- Minimal
- Minimal
- Minimal
- Minimal
- Mild
- Moderate
- Moderate
- Moderate
- Marked
- Chronic Active, Mild
- Moderate

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

[ Ulcer TGLs = 3-15 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 334

TRT#: 14

SEX: Female

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Salivary Glands
- \* Thymus
- \* Uterus
- \* Blood Vessel
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Ovary
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Lung
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Bone Marrow
  - \* Harderian Gland
  - \* Heart
  - \* Kidney
  - \* Liver
  - \* Nose
  - \* Pancreas
  - \* Skin
- |  |                    |                       |                          |
|--|--------------------|-----------------------|--------------------------|
|  |                    |                       |                          |
|  | SOA Dermis         | Hyperplasia           | Minimal                  |
|  | SOA Epidermis      | Infiltration Cellular | Minimal                  |
|  | SOA, Sebaceous GI  | Cardiomyopathy        | Minimal                  |
|  | SOA Epidermis      | Mineralization        | Minimal                  |
|  | Hair Follicle, SOA | Inflammation          | Minimal                  |
|  | SOA                | Inflammation          | Chronic Active, Mild     |
|  | SOA Epidermis      | Atrophy               | Minimal                  |
|  |                    | Infiltration Cellular | Mononuclear CI, Minimal  |
|  |                    | Fibrosis              | Mild                     |
|  |                    | Hyperkeratosis        | Moderate                 |
|  |                    | Hyperplasia           | Moderate                 |
|  |                    | Hyperplasia           | Moderate                 |
|  |                    | Hyperplasia           | Marked                   |
|  |                    | Inflammation          | Chronic Active, Moderate |
|  |                    | Ulcer                 | Moderate                 |

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

[ Ulcer TGLs = 3-15 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 335

TRT#: 14

SEX: Female

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Bone Marrow
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pancreas
- \* Parathyroid Gland
- \* Salivary Glands
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- \* Uterus

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                    |                |                      |
|-------------------|--------------------|----------------|----------------------|
| * Heart           |                    | Cardiomyopathy | Minimal              |
| * Liver           |                    | Inflammation   | Minimal              |
| * Lung            |                    | Inflammation   | Minimal              |
| * Pituitary Gland |                    | Cyst           | Minimal              |
| * Skin            | SOA Dermis         | Fibrosis       | Mild                 |
|                   | SOA Epidermis      | Hyperkeratosis | Moderate             |
|                   | SOA Epidermis      | Hyperplasia    | Moderate             |
|                   | SOA, Sebaceous GI  | Hyperplasia    | Moderate             |
|                   | Hair Follicle, SOA | Hyperplasia    | Moderate             |
|                   | SOA                | Inflammation   | Chronic Active, Mild |
|                   | SOA Epidermis      | Ulcer          | Moderate             |

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

[ Ulcer TGLs = 3-15 ]



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 336

TRT#: 14

SEX: Female

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lung
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thymus
- \* Trachea
- \* Urinary Bladder
- \* Uterus

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Salivary Glands
- \* Skin
- Sublingual GI
- SOA Dermis
- SOA Epidermis
- SOA Epidermis
- SOA, Sebaceous GI
- Hair Follicle, SOA
- SOA
- SOA Epidermis
- [ Hyperkeratosis TGLs = 2-14 ]
- [ Hyperplasia TGLs = 1-13 ]
- [ Ulcer TGLs = 3-15 ]
- \* Thyroid Gland
- Hyperplasia
- Cardiomyopathy
- Mineralization
- Inflammation
- Ectopic Tissue
- Fibrosis
- Hyperkeratosis
- Hyperplasia
- Hyperplasia
- Hyperplasia
- Inflammation
- Ulcer
- Infiltration Cellular
- Ultimobranchial Cyst
- Minimal
- Minimal
- Minimal
- Minimal
- Minimal
- Moderate
- Moderate
- Moderate
- Moderate
- Mild
- Chronic Active, Moderate
- Marked
- Mononuclear CI, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 337

TRT#: 14

SEX: Female

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Bone Marrow
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Kidney
- \* Lung
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- \* Uterus

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |            |                    |                       |                         |
|------------|--------------------|-----------------------|-------------------------|
| * Heart    |                    | Cardiomyopathy        | Minimal                 |
| * Liver    |                    | Inflammation          | Minimal                 |
| * Pancreas |                    | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin     | SOA Dermis         | Fibrosis              | Mild                    |
|            | SOA Epidermis      | Hyperkeratosis        | Moderate                |
|            | SOA Epidermis      | Hyperplasia           | Moderate                |
|            | SOA, Sebaceous GI  | Hyperplasia           | Moderate                |
|            | Hair Follicle, SOA | Hyperplasia           | Marked                  |
|            | SOA                | Inflammation          | Chronic Active, Mild    |
|            | SOA Epidermis      | Ulcer                 | Moderate                |

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

[ Ulcer TGLs = 3-15 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 338

TRT#: 14

SEX: Female

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Kidney
- \* Nose
- \* Pituitary Gland
- \* Thymus
- \* Uterus
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Ovary
- \* Spleen
- \* Thyroid Gland
- \* Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Parathyroid Gland
- \* Stomach, Glandular
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Bone Marrow
- \* Heart
- \* Liver
- \* Salivary Glands
- \* Skin
- Submandibul GI
- SOA Dermis
- SOA Epidermis
- SOA Epidermis
- SOA, Sebaceous GI
- Hair Follicle, SOA
- SOA
- SOA Epidermis
- Hyperplasia
- Cardiomyopathy
- Inflammation
- Vacuolization Cytoplasmic
- Fibrosis
- Hyperkeratosis
- Hyperplasia
- Hyperplasia
- Hyperplasia
- Inflammation
- Ulcer
- Minimal
- Minimal
- Minimal
- Mild
- Mild
- Moderate
- Moderate
- Moderate
- Marked
- Chronic Active, Mild
- Moderate

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

[ Ulcer TGLs = 3-15 ]

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 339

TRT#: 14

SEX: Female

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lung
- \* Ovary
- \* Salivary Glands
- \* Thymus
- \* Uterus
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Spleen
- \* Thyroid Gland
- \* Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Skin
- SOA Dermis
- SOA Epidermis
- SOA Epidermis
- SOA, Sebaceous GI
- Hair Follicle, SOA
- SOA
- SOA Epidermis
- Hyperplasia
- Cardiomyopathy
- Mineralization
- Inflammation
- Fibrosis
- Hyperkeratosis
- Hyperplasia
- Hyperplasia
- Hyperplasia
- Inflammation
- Ulcer
- Minimal
- Minimal
- Minimal
- Minimal
- Mild
- Moderate
- Moderate
- Moderate
- Moderate
- Chronic Active, Moderate
- Moderate

[ Hyperkeratosis TGLs = 2-14 ]

[ Hyperplasia TGLs = 1-13 ]

[ Ulcer TGLs = 3-15 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 01/20/2014

Time Report Requested: 08:57:03

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

Lab: BAT

ANIMAL ID: 340

TRT#: 14

SEX: Female

DAY ON TEST: 93

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 0504200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Kidney
- \* Nose
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Uterus
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Liver
- \* Ovary
- \* Salivary Glands
- \* Thymus
- \* Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Spleen
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Bone Marrow
- \* Heart
- \* Lung
- \* Skin
- SOA Dermis
- SOA Epidermis
- SOA Epidermis
- SOA, Sebaceous Gl
- Hair Follicle, SOA
- SOA
- SOA Epidermis
- [ Hyperkeratosis TGLs = 2-14 ]
- [ Hyperplasia TGLs = 1-13 ]
- [ Ulcer TGLs = 3-15 ]
- \* Thyroid Gland
- Hyperplasia
- Cardiomyopathy
- Infiltration Cellular
- Fibrosis
- Hyperkeratosis
- Hyperplasia
- Hyperplasia
- Hyperplasia
- Inflammation
- Ulcer
- Minimal
- Minimal
- Histiocyte, Minimal
- Mild
- Moderate
- Moderate
- Moderate
- Marked
- Chronic Active, Moderate
- Moderate
- Ultimobranchial Cyst

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