

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

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
Cedarwood oil  
**CAS Number:** 8000-27-9

**Date Report Requested:** 02/03/2014  
**Time Report Requested:** 08:13:55  
**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

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Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
<b>UNTREATED</b>	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>										

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Parasite Metazoan						1					<b>1 1.0</b>
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hepatodiaphragmatic Nodule					X						<b>1</b>
Inflammation	1	1	1	1	1	1		1		1	<b>8 1.0</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Infiltration Cellular, Mononuclear Cell		1		1	1					1	<b>4 1.0</b>
Salivary Glands	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Submandibular Gland, Vacuolization				2	1	2	2	1			<b>5 1.6</b>
Cytoplasmic											
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	<b>10</b>

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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Lab: BAT

<b>FISCHER 344 RATS MALE</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9	9	9	9
<b>UNTREATED</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	0	1	0	
		1	2	3	4	5	6	7	8	9	0			
													<b>* TOTALS</b>	

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	1	1	1	1	1	2	2	1	1	1	10 1.2

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Angiectasis					1	1		1		1	4 1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell								1			1 1.0
Parathyroid Gland	+	+	+	M	+	+	+	+	+	+	9
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Inflammation				1							1 1.0

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Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	FISCHER 344 RATS MALE
	9	9	9	9	9	9	9	9	9	9	
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	UNTREATED
	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	* TOTALS
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Prostate Inflammation	+	+	+	+	+	+	+	+	+	+	10 2 1.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
<b>HEMATOPOIETIC SYSTEM</b>											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
<b>INTEGUMENTARY SYSTEM</b>											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
<b>MUSCULOSKELETAL SYSTEM</b>											
Bone	+	+	+	+	+	+	+	+	+	+	10

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Lab: BAT

FISCHER 344 RATS MALE UNTREATED	DAY ON TEST	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0		
	ANIMAL ID	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0		
		2	2	2	2	2	2	2	2	2		
		0	0	0	0	0	0	0	0	1		
		1	2	3	4	5	6	7	8	9	0	* TOTALS

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	10
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RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10		
Infiltration Cellular, Histiocyte								1	1			2	1.0
Inflammation						1	1					2	1.0
Metaplasia, Osseous				1	1			1		1		5	1.0

Nose	+	+	+	+	+	+	+	+	+	+	10
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Trachea	+	+	+	+	+	+	+	+	+	+	10
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SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	10
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Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
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URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10		
Infiltration Cellular, Mononuclear Cell							1					1	1.0
Mineralization	1	1	1	1	1	1		1	1	1		9	1.0
Nephropathy	1	1	1	1	1	1	1	1	1	1		10	1.0
Renal Tubule, Degeneration		1	1									2	1.0

Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10		
Infiltration Cellular, Mononuclear Cell							1					1	1.0

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Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
	<hr/>										
<b>0 %</b>	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	
<b>* TOTALS</b>											

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hematopoietic Cell Proliferation							1				<b>1 1.0</b>
Hepatodiaphragmatic Nodule						X					<b>1</b>
Inflammation	1	1		1	1	1	1	1		1	<b>8 1.0</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Atrophy				1							<b>1 1.0</b>
Infiltration Cellular, Mononuclear Cell	1	1			1	1				1	<b>5 1.0</b>
Salivary Glands	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Submandibular Gland, Vacuolization	1									1	<b>2 1.0</b>
Cytoplasmic											
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	FISCHER 344 RATS MALE
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	9	9	9	9	9	9	9	9	9	9	0 %
	3	3	3	3	3	3	3	3	3	3	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	
<b>* TOTALS</b>											

Stomach, Glandular  
Glands, Ectasia

+ + + + + + + + + +  
1 1

10  
2 1.0

**CARDIOVASCULAR SYSTEM**

Blood Vessel

+ + + + + + + + + +

10

Heart  
Cardiomyopathy

+ + + + + + + + + +  
1 2 1 1 1 1 1 1 1 1

10  
10 1.1

**ENDOCRINE SYSTEM**

Adrenal Cortex  
Angiectasis

+ + + + + + + + + +  
1 1

10  
2 1.0

Adrenal Medulla

+ + + + + + + + + +

10

Islets, Pancreatic  
Infiltration Cellular, Mononuclear Cell

+ + + + + + + + + +  
1

10  
1 1.0

Parathyroid Gland

+ + + + + + + M + +

9

Pituitary Gland  
Cyst

+ + + + + + + + + +  
1

10  
1 1.0

Thyroid Gland

+ + + + + + + + + +

10

**GENERAL BODY SYSTEM**

NONE

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FISCHER 344 RATS MALE	DAY ON TEST										0 %	ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0												
	9	9	9	9	9	9	9	9	9	9												
	3	3	3	3	3	3	3	3	3	3												
	0	0	0	0	0	0	0	0	0	0												
	0	0	0	0	0	0	0	0	0	0												
	2	2	2	2	2	2	2	2	2	2												
	1	1	1	1	1	1	1	1	1	2												
	1	2	3	4	5	6	7	8	9	0												
<b>* TOTALS</b>																						

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	10		
Infiltration Cellular, Mononuclear Cell					1							1	1.0
Inflammation							1			1		2	1.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10		
Inflammation, Focal, Chronic				2								1	2.0
Prostate	+	+	+	+	+	+	+	+	+	+	10		
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10		
Testes	+	+	+	+	+	+	+	+	+	+	10		

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10		
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	0		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10		
Spleen	+	+	+	+	+	+	+	+	+	+	10		
Hematopoietic Cell Proliferation										1		1	1.0
Thymus	+	+	+	+	+	+	+	+	+	+	10		

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	10		
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		0	0	0	0	0	0	0	0	0	
DAY ON TEST		0	0	0	0	0	0	0	0	0	
FISCHER 344 RATS MALE		9	9	9	9	9	9	9	9	9	
0 %		3	3	3	3	3	3	3	3	3	
ANIMAL ID		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	
		1	1	1	1	1	1	1	1	2	
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											
Mineralization				1		1			1		1
Nephropathy		1	1	1	1	1	1	1	1	1	1
Renal Tubule, Degeneration							1	1	1		1
Urinary Bladder		+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell				1							1 1.0

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FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
6.25 %		9	9	9	9	9	9	9	9	9	
		3	3	3	3	3	3	3	3	3	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	
		2	2	2	2	2	2	2	2	3	
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Ultimobranchial Cyst					X			X			<b>2</b>

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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INTEGUMENTARY SYSTEM

Skin	+	+	+	+	+	+	+	+	+	+	<b>10</b>
------	---	---	---	---	---	---	---	---	---	---	-----------

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+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5 %	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
		1	2	3	4	5	6	7	8	9	0									
<b>* TOTALS</b>																				

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10		
Hematopoietic Cell Proliferation					1																	1 1.0
Inflammation	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			10 1.0

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Testes																						1	
Germinal Epithelium, Right, Atrophy																						3	1 3.0

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
-------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

**INTEGUMENTARY SYSTEM**

Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9					
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3					
	<hr/>																			
<b>12.5 %</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4					
	1	2	3	4	5	6	7	8	9	0										
<b>* TOTALS</b>																				
Site Of Application, Inflammation, Chronic Active		1			1			1		1						<b>4 1.0</b>				
Site Of Application - Epidermis, Hyperkeratosis												1		<b>1 1.0</b>						
Site Of Application - Epidermis, Hyperplasia		2		1												1		1		<b>4 1.3</b>
Site Of Application - Epidermis, Ulcer												1						<b>1 1.0</b>		

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>		
Mineralization	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		<b>9</b>	<b>1.0</b>
Nephropathy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		<b>10</b>	<b>1.0</b>
Renal Tubule, Degeneration		1	1	1		1	1	1									<b>6</b>	<b>1.0</b>

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
25 %	ANIMAL ID	9	9	9	9	9	9	9	9	9	
		3	3	3	3	3	3	3	3	3	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	
		4	4	4	4	4	4	4	4	5	
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation	1	1	1		1	1	1			1	<b>7 1.0</b>

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-------------	---	---	---	---	---	---	---	---	---	---	-----------

INTEGUMENTARY SYSTEM

Skin	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hair Follicle, Site Of Application, Hyperplasia	1	2		1	1	1	2	2	1	1	<b>9 1.3</b>

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
25 %	ANIMAL ID	9	9	9	9	9	9	9	9	9	9	
		3	3	3	3	3	3	3	3	3	3	
<b>* TOTALS</b>												

Sebacous Gland, Site Of Application, Hyperplasia	2	2		3	2	1	1	2	2	2	<b>9 1.9</b>
Site Of Application, Inflammation, Chronic Active	1	1	1	1	2	1		3	1	2	<b>9 1.4</b>
Site Of Application - Dermis, Fibrosis		1	1	2	1	1		1		1	<b>7 1.1</b>
Site Of Application - Epidermis, Hyperkeratosis		1	1	1	1	1		2		1	<b>7 1.1</b>
Site Of Application - Epidermis, Hyperplasia	2	2	2	2	2	2	1	2	3	2	<b>10 2.0</b>
Site Of Application - Epidermis, Ulcer								3			<b>1 3.0</b>

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Accumulation, Hyaline Droplet	1	1	1	1	1	1	1	1	1	2	<b>10 1.1</b>
Infiltration Cellular, Mononuclear Cell				1							<b>1 1.0</b>
Mineralization	1	1	1		1	1		1	1		<b>8 1.0</b>
Nephropathy	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically M .. Missing tissue  
X .. Lesion present A .. Autolysis precludes evaluation  
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

		0	0	0	0	0	0	0	0	0	
<b>FISCHER 344 RATS MALE</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		3	3	3	3	3	3	3	3	3	
	<b>25 %</b>										
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	
		4	4	4	4	4	4	4	4	5	
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											
Renal Tubule, Casts Granular		1		1			1	1			1
Renal Tubule, Degeneration		1		1	1	1	1		1		

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	9	9	9	9	9	9	9	9	9	9			
<b>FISCHER 344 RATS MALE</b>	3	3	3	3	3	3	3	3	3	3			
<b>50 %</b>	0	0	0	0	0	0	0	0	0	0			
	2	2	2	2	2	2	2	2	2	2			
	5	5	5	5	5	5	5	5	5	6			
	1	2	3	4	5	6	7	8	9	0			
	<b>* TOTALS</b>												
Hair Follicle, Site Of Application, Hyperplasia	3	3	2	3	2	2	2	1	1	1		<b>10</b>	<b>2.0</b>
Sebaceous Gland, Site Of Application, Hyperplasia	3	3	2	3	3	3	3	3	3	2		<b>10</b>	<b>2.8</b>
Site Of Application, Inflammation, Chronic Active	3	2	2	2	3	2	2	3	2	2		<b>10</b>	<b>2.3</b>
Site Of Application - Dermis, Fibrosis	2	2	2	3	3	3	2	2	3	2		<b>10</b>	<b>2.4</b>
Site Of Application - Epidermis, Hyperkeratosis	2	1	1	2	3	1	2	1	1	2		<b>10</b>	<b>1.6</b>
Site Of Application - Epidermis, Hyperplasia	3	3	3	3	3	3	3	3	3	2		<b>10</b>	<b>2.9</b>
Site Of Application - Epidermis, Ulcer	3	1		3		3	2	3		3		<b>7</b>	<b>2.6</b>

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+		<b>10</b>	
Accumulation, Hyaline Droplet	2	2	2	2	2	2	1	2	2	2		<b>10</b>	<b>1.9</b>
Mineralization	1	1	1		1	1		1	1	1		<b>8</b>	<b>1.0</b>
Nephropathy	2	2	2	2	2	2	2	2	2	2		<b>10</b>	<b>2.0</b>

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

		0	0	0	0	0	0	0	0	0		
DAY ON TEST		0	0	0	0	0	0	0	0	0		
FISCHER 344 RATS MALE		9	9	9	9	9	9	9	9	9		
50 %		3	3	3	3	3	3	3	3	3		
ANIMAL ID		0	0	0	0	0	0	0	0	0		
		2	2	2	2	2	2	2	2	2		
		5	5	5	5	5	5	5	5	6		
		1	2	3	4	5	6	7	8	9	0	
<b>* TOTALS</b>												
Renal Tubule, Casts Granular		2	2	1	3	1	1	2	1	1	2	<b>10 1.6</b>
Renal Tubule, Degeneration		1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

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Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>FISCHER 344 RATS MALE</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		9	9	7	9	9	9	9	9	7	9	9	9	9	9
		3	3	3	3	3	3	3	3	3	3	3	3	3	3
	<b>100 %</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	2	2	2	2	2	2	2
		6	6	6	6	6	6	6	6	6	6	6	6	7	7
		1	2	3	4	5	6	7	8	9	0				
														<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>		
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>		
Parasite Metazoan										1					<b>1</b>	<b>1.0</b>	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>		
Inflammation	1	1	1	1	1	1	1			1	1				<b>9</b>	<b>1.0</b>	
Necrosis, Focal							1								<b>1</b>	<b>1.0</b>	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>		
Atrophy										2					<b>1</b>	<b>2.0</b>	
Infiltration Cellular, Mononuclear Cell										1	1	2			<b>3</b>	<b>1.3</b>	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>		
Submandibular Gland, Vacuolization	2	2		2									2		<b>4</b>	<b>2.0</b>	
Cytoplasmic																	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>		

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Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
100 %		9	9	7	9	9	9	9	7	9	
		3	3	9	3	3	3	3	9	3	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	
		6	6	6	6	6	6	6	6	7	
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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Heart	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-------	---	---	---	---	---	---	---	---	---	---	-----------

Cardiomyopathy	2	1	1	2	1	1	2	1	1	1	<b>10 1.3</b>
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Epicardium, Hyperplasia							2				<b>1 2.0</b>
-------------------------	--	--	--	--	--	--	---	--	--	--	--------------

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
----------------	---	---	---	---	---	---	---	---	---	---	-----------

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-----------------	---	---	---	---	---	---	---	---	---	---	-----------

Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	<b>10</b>
--------------------	---	---	---	---	---	---	---	---	---	---	-----------

Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-------------------	---	---	---	---	---	---	---	---	---	---	-----------

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-----------------	---	---	---	---	---	---	---	---	---	---	-----------

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
---------------	---	---	---	---	---	---	---	---	---	---	-----------

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	<b>10</b>
------------	---	---	---	---	---	---	---	---	---	---	-----------

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

FISCHER 344 RATS MALE 100 %	DAY ON TEST										* TOTALS
	0 9 3	0 9 3	0 7 9	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 7 9	0 9 3	
	ANIMAL ID										
	0 2 6 1	0 0 6 2	0 0 6 3	0 0 6 4	0 0 6 5	0 0 6 6	0 0 6 7	0 0 6 8	0 0 6 9	0 0 7 0	
Inflammation			1					1			2 1.0
Preputial Gland Inflammation, Focal, Chronic	+	+	+	+	+	+	+	+	+	+	10 3 1.3
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
<b>HEMATOPOIETIC SYSTEM</b>											
Bone Marrow Hyperplasia	+	+	+	+	+	+	+	+	+	+	10 7 1.1
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
<b>INTEGUMENTARY SYSTEM</b>											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin Hair Follicle, Site Of Application, Hyperplasia	+	+	+	+	+	+	+	+	+	+	10 9 1.8
Sebaceous Gland, Site Of Application, Hyperplasia	2	3	2	2	2		1	1	2	1	10 10 3.0

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	FISCHER 344 RATS MALE
	9	9	7	9	9	9	9	9	7	9	
100 %	3	3	9	3	3	3	3	3	9	3	ANIMAL ID
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
	6	6	6	6	6	6	6	6	6	7	
	1	2	3	4	5	6	7	8	9	0	
											* TOTALS
Site Of Application, Inflammation, Chronic Active	2	3	3	3	3	2	2	3	3	3	10 2.7
Site Of Application - Dermis, Fibrosis	2	2	2	3	2	2	2	3	3	3	10 2.4
Site Of Application - Epidermis, Hyperkeratosis	3	3	3	3	3	3	3	3	3	3	10 3.0
Site Of Application - Epidermis, Hyperplasia		3	3	3	2	3	3	3	3	3	9 2.9
Site Of Application - Epidermis, Ulcer	3	3	3	3	3			3	3	3	8 3.0

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	----

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Hemorrhage							3				1 3.0
Infiltration Cellular, Histiocyte			1				2				2 1.5
Inflammation	1	1				1			1		4 1.0
Metaplasia, Osseous	1			1	1	1					4 1.0
Pigmentation, Hemosiderin							2				1 2.0
Serosa, Inflammation, Granulomatous							2				1 2.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active								1	1		2 1.0
Trachea	+	+	+	+	+	+	+	+	+	+	10

SPECIAL SENSES SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically M .. Missing tissue  
X .. Lesion present A .. Autolysis precludes evaluation  
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	0	0	0	0	0	0	0	0	0	0			
<b>FISCHER 344 RATS MALE</b>	9	9	7	9	9	9	9	9	7	9			
<b>100 %</b>	3	3	9	3	3	3	3	3	9	3			
	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0			
	2	2	2	2	2	2	2	2	2	2			
	6	6	6	6	6	6	6	6	6	7			
	1	2	3	4	5	6	7	8	9	0			
											<b>* TOTALS</b>		
Eye	+	+	+	+	+	+	+	+	+	+			<b>10</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	+			<b>10</b>
<b>URINARY SYSTEM</b>													
Kidney	+	+	+	+	+	+	+	+	+	+			<b>10</b>
Accumulation, Hyaline Droplet	3	3	3	3	3	3	3	3	3	3		<b>10</b>	<b>3.0</b>
Infiltration Cellular, Mononuclear Cell	1											<b>1</b>	<b>1.0</b>
Mineralization	2		1	1	1		1	1	1	1		<b>8</b>	<b>1.1</b>
Nephropathy	2	2	2	2	2	2	2	2	2	2		<b>10</b>	<b>2.0</b>
Renal Tubule, Casts Granular	4	3	3	4	3	4	3	3	4	4		<b>10</b>	<b>3.5</b>
Renal Tubule, Degeneration	1	1	1	1	1	1	1	1	1	1		<b>10</b>	<b>1.0</b>
Urinary Bladder	+	+	+	+	+	+	+	+	+	+			<b>10</b>
Infiltration Cellular, Mononuclear Cell						1						<b>1</b>	<b>1.0</b>
Serosa, Mineralization, Focal							1					<b>1</b>	<b>1.0</b>

\*\*\* END OF MALE DATA \*\*\*

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
<b>UNTREATED</b>	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
	7	7	7	7	7	7	7	7	7	8	
	1	2	3	4	5	6	7	8	9	0	
<b>* TOTALS</b>											

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hematopoietic Cell Proliferation				1				1			<b>2 1.0</b>
Hepatodiaphragmatic Nodule						X		X			<b>2</b>
Inflammation	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Infiltration Cellular, Mononuclear Cell		1	1	1	2	2		1	1		<b>7 1.3</b>
Salivary Glands	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Submandibular Gland, Vacuolization Cytoplasmic				1		1				1	<b>3 1.0</b>
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	<b>10</b>

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

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2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0
<b>FISCHER 344 RATS FEMALE</b>		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
		3	3	3	3	3	3	3	3	3	3
<b>UNTREATED</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	2	2	2
		7	7	7	7	7	7	7	7	7	8
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Heart	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Cardiomyopathy	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>
Inflammation, Chronic Active		2									<b>1 2.0</b>

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Infiltration Cellular						1					<b>1 1.0</b>
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Parathyroid Gland	+	+	+	+	+	+	+	+	+	M	<b>9</b>
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Cyst		1	1								<b>2 1.0</b>
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
----------------	---	---	---	---	---	---	---	---	---	---	-----------

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Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
FISCHER 344 RATS FEMALE	3	3	3	3	3	3	3	3	3	3	
UNTREATED											
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
	7	7	7	7	7	7	7	7	7	8	
	1	2	3	4	5	6	7	8	9	0	* TOTALS
Infiltration Cellular, Mononuclear Cell Inflammation, Focal, Chronic Active						2					1 2.0
Inflammation, Chronic Active				2							1 2.0
Ovary Left, Cyst	+	+	+	+	+	+	+	+	+	+	10 1 3.0
Uterus	+	+	+	+	+	+	+	+	+	+	10
<b>HEMATOPOIETIC SYSTEM</b>											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
<b>INTEGUMENTARY SYSTEM</b>											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
<b>MUSCULOSKELETAL SYSTEM</b>											
Bone	+	+	+	+	+	+	+	+	+	+	10

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
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Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	
<b>FISCHER 344 RATS FEMALE</b>		0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		3	3	3	3	3	3	3	3	3	
	<b>UNTREATED</b>	0	0	0	0	0	0	0	0	0	
ANIMAL ID		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	
		7	7	7	7	7	7	7	7	8	
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-------	---	---	---	---	---	---	---	---	---	---	-----------

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation	1		1			1					<b>3 1.0</b>
Metaplasia, Osseous			1								<b>1 1.0</b>
Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Infiltration Cellular, Mononuclear Cell								1			<b>1 1.0</b>

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Infarct, Focal, Chronic						X					<b>1</b>
Mineralization	1				1	1		1	1		<b>5 1.0</b>
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Infiltration Cellular, Mononuclear Cell		1			1		1	1		1	<b>5 1.0</b>

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+ .. Tissue examined microscopically

X .. Lesion present

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Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3	3
	<hr/>										
<b>0 %</b>	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2
	8	8	8	8	8	8	8	8	8	8	9
	1	2	3	4	5	6	7	8	9	0	
<b>* TOTALS</b>											

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	10	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10	
Parasite Metazoan			1									1 1.0
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10	
Liver	+	+	+	+	+	+	+	+	+	+	10	
Hepatodiaphragmatic Nodule		X										1
Inflammation	1	1	1	1		1	2	1	1	1	9	1.1
Pancreas	+	+	+	+	+	+	+	+	+	+	10	
Infiltration Cellular, Mononuclear Cell	1	1					1			1		4 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10	
Submandibular Gland, Vacuolization			2			1	2	1				4 1.5
Cytoplasmic												
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10	

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	
0 %		9	9	9	9	9	9	9	9	9	
ANIMAL ID		3	3	3	3	3	3	3	3	3	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	
		8	8	8	8	8	8	8	8	9	
		1	2	3	4	5	6	7	8	9	
<b>* TOTALS</b>											

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy		1	1	1	1	1	1	1	1	1	9 1.0

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell	1										1 1.0
Mineralization					2						1 2.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	M	+		9
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Cyst						1	1				2 1.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell	1					2					2 1.5
Ultimobranchial Cyst	X				X		X				3

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

<b>FISCHER 344 RATS FEMALE</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
<b>0 %</b>	ANIMAL ID	3	3	3	3	3	3	3	3	3	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	
		8	8	8	8	8	8	8	8	9	
		1	2	3	4	5	6	7	8	9	
<b>* TOTALS</b>											

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Ovary	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Uterus	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	<b>0</b>
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Spleen	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Thymus	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Skin	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	<b>10</b>
------	---	---	---	---	---	---	---	---	---	---	-----------

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-------	---	---	---	---	---	---	---	---	---	---	-----------

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0
FISCHER 344 RATS FEMALE		9	9	9	9	9	9	9	9	9	9	9	9	9	9
0 %		3	3	3	3	3	3	3	3	3	3	3	3	3	3
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	2	2	2	2	2	2	2
		8	8	8	8	8	8	8	8	8	8	8	8	9	9
		1	2	3	4	5	6	7	8	9	0				
														<b>* TOTALS</b>	

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10		
Infiltration Cellular, Histiocyte								1				1	1.0
Inflammation					1				1			2	1.0
Metaplasia, Osseous			1									1	1.0
Nose	+	+	+	+	+	+	+	+	+	+	10		
Vacuolization Cytoplasmic	3											1	3.0
Trachea	+	+	+	+	+	+	+	+	+	+	10		

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	10		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10		

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10		
Mineralization	1						1	1	1	1		5	1.0
Nephropathy									1			1	1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10		
Infiltration Cellular, Mononuclear Cell					2		1					2	1.5

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	FISCHER 344 RATS FEMALE
	0	0	0	0	0	0	0	0	0	0	
6.25 %	9	9	9	9	9	9	9	9	9	9	ANIMAL ID
	3	3	3	3	3	3	3	3	3	3	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	3	
	9	9	9	9	9	9	9	9	9	0	
	1	2	3	4	5	6	7	8	9	0	
<b>* TOTALS</b>											

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10	
Inflammation	1	1	1	1	1	1	1	2	1	1	10	1.1
Mesentery					+						1	
Mineralization					2							1 2.0
Necrosis					3							1 3.0
Fat, Inflammation, Granulomatous, Chronic Active					3							1 3.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
Ultimobranchial Cyst	X							X				2

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+		+	+	+	+	9	
-------------	---	---	---	---	---	--	---	---	---	---	---	--

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

<b>FISCHER 344 RATS FEMALE</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	
		3	3	3	3	3	3	3	3	3	3	
<b>6.25 %</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	2	2	2	2	2	2	2	2	2	3		
	9	9	9	9	9	9	9	9	9	0		
	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>	

**INTEGUMENTARY SYSTEM**

Skin	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Site Of Application - Epidermis, Hyperkeratosis						1					<b>1 1.0</b>
Site Of Application - Epidermis, Hyperplasia	1					1	1	1			<b>4 1.0</b>

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	
12.5 %		9	9	9	9	9	9	9	9	9	
ANIMAL ID		3	3	3	3	3	3	3	3	3	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	
		0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation	1	1		1	1	1	1	1	1	1	<b>9 1.0</b>

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
---------------	---	---	---	---	---	---	---	---	---	---	-----------

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-------------	---	---	---	---	---	---	---	---	---	---	-----------

**INTEGUMENTARY SYSTEM**

Skin	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hair Follicle, Site Of Application, Hyperplasia								1			<b>1 1.0</b>
Sebaceous Gland, Site Of Application, Hyperplasia				1	1			1	1		<b>4 1.0</b>

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked



Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0
FISCHER 344 RATS FEMALE		9	9	9	9	9	9	9	9	9	9	9	9	9
25 %		3	3	3	3	3	3	3	3	3	3	3	3	3
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		3	3	3	3	3	3	3	3	3	3	3	3	3
		1	1	1	1	1	1	1	1	1	1	2		
		1	2	3	4	5	6	7	8	9	0			
													<b>* TOTALS</b>	

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10	
Inflammation	1	1	1	1		1	1	1		1	8	1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
Ultimobranchial Cyst					X	X		X			3	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia			1	1							2	1.0

INTEGUMENTARY SYSTEM

Skin	+	+	+	+	+	+	+	+	+	+	10	
------	---	---	---	---	---	---	---	---	---	---	----	--

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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1-4 .. Lesion qualified as:

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2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
<b>FISCHER 344 RATS FEMALE</b>	9	9	9	9	9	9	9	9	9	9	
<b>25 %</b>	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	
<b>* TOTALS</b>											
Hair Follicle, Site Of Application, Hyperplasia	2	1		2	2	1	2	2	2	1	<b>9 1.7</b>
Sebaceous Gland, Site Of Application, Hyperplasia	2	1	2	2	2	1	2	2	2		<b>9 1.8</b>
Site Of Application, Inflammation, Chronic Active	2	1	1	1	2	1	1	1	1	1	<b>10 1.2</b>
Site Of Application - Dermis, Fibrosis	2	1	1	1				1	1	1	<b>7 1.1</b>
Site Of Application - Epidermis, Hyperkeratosis	1	1	2	1	1	1	1	2	1	1	<b>10 1.2</b>
Site Of Application - Epidermis, Hyperplasia	2	2	3	2	2	1	2	3	2	2	<b>10 2.1</b>
Site Of Application - Epidermis, Ulcer								3			<b>1 3.0</b>

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

FISCHER 344 RATS FEMALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	
50 %	ANIMAL ID	3	3	3	3	3	3	3	3	3	3	
		0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0		
		3	3	3	3	3	3	3	3	3		
		2	2	2	2	2	2	2	2	3		
		1	2	3	4	5	6	7	8	9		
<b>* TOTALS</b>												

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10
Inflammation			1			1	1		1	1	5 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Ultimobranchial Cyst	X				X	X					3

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia		1								1	2 1.0

INTEGUMENTARY SYSTEM

Skin	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	----

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	0	0	0	0	0	0	0	0	0	0			
<b>FISCHER 344 RATS FEMALE</b>	9	9	9	9	9	9	9	9	9	9			
<b>50 %</b>	3	3	3	3	3	3	3	3	3	3			
	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0			
	3	3	3	3	3	3	3	3	3	3			
	2	2	2	2	2	2	2	2	2	3			
	1	2	3	4	5	6	7	8	9	0			
												<b>* TOTALS</b>	
Hair Follicle, Site Of Application, Hyperplasia	3	2	3	1	2	3	3	4	4	3			<b>10 2.8</b>
Sebaceous Gland, Site Of Application, Hyperplasia	3	3	3	3	3	3	2	3	3	3			<b>10 2.9</b>
Site Of Application, Inflammation, Chronic Active	3	2	3	2	3	2	2	3	1	3			<b>10 2.4</b>
Site Of Application - Dermis, Fibrosis	2	2		2	2	1	1	2		2			<b>8 1.8</b>
Site Of Application - Epidermis, Hyperkeratosis	3	3	2	3	2	2	2	3	2	3			<b>10 2.5</b>
Site Of Application - Epidermis, Hyperplasia	3	3	3	3	3	2	3	3	2	3			<b>10 2.8</b>
Site Of Application - Epidermis, Ulcer	2		2	3						2			<b>4 2.3</b>

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	
<b>FISCHER 344 RATS FEMALE</b>		0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		3	3	3	3	3	3	3	3	3	
	<b>100 %</b>	0	0	0	0	0	0	0	0	0	
ANIMAL ID		0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	
		3	3	3	3	3	3	3	3	4	
		1	2	3	4	5	6	7	8	9	
<b>* TOTALS</b>											

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation			1	1	1	1	1	1	1		<b>7 1.0</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Atrophy				1							<b>1 1.0</b>
Infiltration Cellular, Mononuclear Cell		1		1			1				<b>3 1.0</b>
Salivary Glands	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Sublingual Gland, Ectopic Tissue						1					<b>1 1.0</b>
Submandibular Gland, Ectopic Tissue	1										<b>1 1.0</b>
Submandibular Gland, Vacuolization Cytoplasmic								2			<b>1 2.0</b>
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20316 - 01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0
<b>100 %</b>	9	9	9	9	9	9	9	9	9	9
<b>ANIMAL ID</b>	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	4
	1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>										

Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Heart	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Cardiomyopathy	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Cyst				1							<b>1 1.0</b>
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Infiltration Cellular, Mononuclear Cell					2						<b>1 2.0</b>
Ultimobranchial Cyst					X				X		<b>2</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

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Species/Strain: RATS/F 344/N

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Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:13:55

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

Lab: BAT

<b>FISCHER 344 RATS FEMALE</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
<b>100 %</b>	ANIMAL ID	9	9	9	9	9	9	9	9	9	
		3	3	3	3	3	3	3	3	3	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	
		3	3	3	3	3	3	3	3	4	
		1	2	3	4	5	6	7	8	9	
											<b>* TOTALS</b>

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Ovary	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Uterus	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hyperplasia	1		1	1		1		1	1	1	<b>7 1.0</b>
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	<b>0</b>
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Spleen	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Thymus	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Skin	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hair Follicle, Site Of Application, Hyperplasia	4	4	4	4	3	2	4	4	3	4	<b>10 3.6</b>
Sebaceous Gland, Site Of Application, Hyperplasia	3	3	3	3	3	3	3	3	3	3	<b>10 3.0</b>
Site Of Application, Inflammation, Chronic Active	2	2	2	3	2	3	2	2	3	3	<b>10 2.4</b>
Site Of Application - Dermis, Fibrosis	2	2	2	2	2	3	2	2	2	2	<b>10 2.1</b>
Site Of Application - Epidermis, Hyperkeratosis	3	3	3	3	3	3	3	3	3	3	<b>10 3.0</b>

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

Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	
<b>FISCHER 344 RATS FEMALE</b>		0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		3	3	3	3	3	3	3	3	3	
	<b>100 %</b>	0	0	0	0	0	0	0	0	0	
ANIMAL ID		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	
		3	3	3	3	3	3	3	3	4	
		1	2	3	4	5	6	7	8	9	
<b>* TOTALS</b>											
Site Of Application - Epidermis, Hyperplasia		3	3	3	3	3	3	3	3	3	<b>10 3.0</b>
Site Of Application - Epidermis, Ulcer		3	3	3	3	3	4	3	3	3	<b>10 3.1</b>

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Infiltration Cellular, Histiocyte										1	<b>1 1.0</b>
Inflammation	1				1						<b>2 1.0</b>
Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Chronic Active				2							<b>1 2.0</b>
Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Infiltration Cellular				1							<b>1 1.0</b>

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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		0	0	0	0	0	0	0	0	0	
DAY ON TEST		0	0	0	0	0	0	0	0	0	
<b>FISCHER 344 RATS FEMALE</b>		9	9	9	9	9	9	9	9	9	
<b>100 %</b>		3	3	3	3	3	3	3	3	3	
ANIMAL ID		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	
		3	3	3	3	3	3	3	3	4	
		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											
Mineralization		1	1	1	1		1		1		<b>6 1.0</b>
Nephropathy				1							<b>1 1.0</b>
Urinary Bladder		+	+	+	+	+	+	+	+	+	<b>10</b>

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

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