

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
	FISCHER 344 RATS MALE	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
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										

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	1		1		1	8 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell		1		1	1					1	4 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Submandibular Gland, Vacuolization			2	1	2	2	1				5 1.6
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

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

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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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	+	+	+	+	+	+	+	1	+	1	10 2 1.0
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
Thymus	+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM											
Bone	+	+	+	+	+	+	+	+	+	+	10

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	ANIMAL ID	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	
		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
------	---	---	---	---	---	---	---	---	---	---	----

Trachea	+	+	+	+	+	+	+	+	+	+	10
---------	---	---	---	---	---	---	---	---	---	---	----

SPECIAL SENSES SYSTEM

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

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

ALIMENTARY SYSTEM

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

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

Stomach, Glandular Glands, Ectasia	+	+	+	+	+	+	+	+	+	+	10
						1	1				2 1.0

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	1	2	1	1	1	1	1	1	1	1	10 1.1

ENDOCRINE SYSTEM

Adrenal Cortex Angiectasis	+	+	+	+	+	+	+	+	+	+	10
							1		1		2 1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic Infiltration Cellular, Mononuclear Cell	+	+	+	+	+	+	+	+	+	+	10
									1		1 1.0
Parathyroid Gland	+	+	+	+	+	+	+	M	+	+	9
Pituitary Gland Cyst	+	+	+	+	+	+	+	+	+	+	10
									1		1 1.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

NONE

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

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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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	FISCHER 344 RATS MALE	0 %	ANIMAL ID											
	0	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	9														
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	0														
	2	2	2	2	2	2	2	2	2	2														
	1	1	1	1	1	1	1	1	1	1														
	1	2	3	4	5	6	7	8	9	0														
													* TOTALS											
Skin													+ + + + + + + + + +										10	
MUSCULOSKELETAL SYSTEM																								
Bone													+ + + + + + + + + +										10	
NERVOUS SYSTEM																								
Brain													+ + + + + + + + + +										10	
RESPIRATORY SYSTEM																								
Lung													+ + + + + + + + + +										10	
Infiltration Cellular, Histiocyte																							1 1.0	
Inflammation													1 1 1 1 1										5 1.0	
Metaplasia, Osseous													1 1 1 1 1										5 1.0	
Nose													+ + + + + + + + + +										10	
Trachea													+ + + + + + + + + +										10	
SPECIAL SENSES SYSTEM																								
Eye													+ + + + + + + + + +										10	
Harderian Gland													+ + + + + + + + + +										10	
URINARY SYSTEM																								
Kidney													+ + + + + + + + + +										10	
Infiltration Cellular, Mononuclear Cell																							1 1.0	

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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
* TOTALS											
Mineralization				1		1			1		1
Nephropathy		1	1	1	1	1	1	1	1	1	4 1.0
Renal Tubule, Degeneration							1	1	1		4 1.0
Urinary Bladder		+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell				1							1 1.0

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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 6.25 %	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
		9	9	9	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	3	3	3
		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	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	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		1	2	3	4	5	6	7	8	9	0								
* TOTALS																			

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Inflammation	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
Ultimobranchial Cyst					X					X									2

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

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

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
6.25 %	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	
	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	
	1	2	3	4	5	6	7	8	9	0	
* TOTALS											
Site Of Application, Inflammation, Chronic Active				1							1 1.0
Site Of Application - Epidermis, Hyperplasia	1		1							2 1.0	

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10	
Mineralization	1	1	1		1		1	1		1		7 1.0
Nephropathy	1	1	1	1	1	1	1	1	1	1		10 1.0
Renal Tubule, Degeneration			1	1		1			1	1		5 1.0

* .. 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

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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	
	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	
		2	2	2	2	2	2	2	2	2	
		3	3	3	3	3	3	3	3	4	
		1	2	3	4	5	6	7	8	9	0
* TOTALS											

ALIMENTARY SYSTEM

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

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
FISCHER 344 RATS MALE		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
	12.5 %									
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
		3	3	3	3	3	3	3	3	4
		1	2	3	4	5	6	7	8	9
* TOTALS										
Site Of Application, Inflammation, Chronic Active				1			1		1	1
Site Of Application - Epidermis, Hyperkeratosis								1		
Site Of Application - Epidermis, Hyperplasia		2	1						1	1
Site Of Application - Epidermis, Ulcer								1		

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
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	1		1	1	1			6 1.0

* .. 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

FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
25 %	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	
		4	4	4	4	4	4	4	4	5	
		1	2	3	4	5	6	7	8	9	0
* TOTALS											

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10
Inflammation	1	1	1		1	1	1			1	7 1.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

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

INTEGUMENTARY SYSTEM

Skin	+	+	+	+	+	+	+	+	+	+	10
Hair Follicle, Site Of Application, Hyperplasia	1	2		1	1	1	2	2	1	1	9 1.3

* .. 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:

1) Minimal 3) Moderate

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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 MALE
	9	9	9	9	9	9	9	9	9	9	
3	3	3	3	3	3	3	3	3	3	3	25 %
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	* TOTALS
	2	2	2	2	2	2	2	2	2	2	
	4	4	4	4	4	4	4	4	4	5	
	1	2	3	4	5	6	7	8	9	0	
	1	2	3	4	5	6	7	8	9	0	
Sebacous Gland, Site Of Application, Hyperplasia	2	2		3	2	1	1	2	2	2	9 1.9
Site Of Application, Inflammation, Chronic Active	1	1	1	1	2	1		3	1	2	9 1.4
Site Of Application - Dermis, Fibrosis		1	1	2	1	1		1		1	7 1.1
Site Of Application - Epidermis, Hyperkeratosis		1	1	1	1	1		2		1	7 1.1
Site Of Application - Epidermis, Hyperplasia	2	2	2	2	2	2	1	2	3	2	10 2.0
Site Of Application - Epidermis, Ulcer								3			1 3.0

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

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

* .. 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

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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

		0	0	0	0	0	0	0	0	0	
FISCHER 344 RATS MALE	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	
	25 %										
	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
* TOTALS											
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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Experiment Number: 20316 - 01

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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
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0
50 %		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
		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
		5	5	5	5	5	5	5	5	5	5	5	6	6
		1	2	3	4	5	6	7	8	9	0			
* TOTALS														

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10		
Hematopoietic Cell Proliferation							1					1	1.0
Inflammation	1	1		1	1	1	1		1			7	1.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10		
Hyperplasia							1					1	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

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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			
FISCHER 344 RATS MALE	3	3	3	3	3	3	3	3	3	3			
50 %	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			
	* TOTALS												
Hair Follicle, Site Of Application, Hyperplasia	3	3	2	3	2	2	2	1	1	1		10	2.0
Sebaceous Gland, Site Of Application, Hyperplasia	3	3	2	3	3	3	3	3	3	2		10	2.8
Site Of Application, Inflammation, Chronic Active	3	2	2	2	3	2	2	3	2	2		10	2.3
Site Of Application - Dermis, Fibrosis	2	2	2	3	3	3	2	2	3	2		10	2.4
Site Of Application - Epidermis, Hyperkeratosis	2	1	1	2	3	1	2	1	1	2		10	1.6
Site Of Application - Epidermis, Hyperplasia	3	3	3	3	3	3	3	3	3	2		10	2.9
Site Of Application - Epidermis, Ulcer	3	1		3		3	2	3		3		7	2.6

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+		10	
Accumulation, Hyaline Droplet	2	2	2	2	2	2	1	2	2	2		10	1.9
Mineralization	1	1	1		1	1		1	1	1		8	1.0
Nephropathy	2	2	2	2	2	2	2	2	2	2		10	2.0

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

+ .. Tissue examined microscopically

X .. Lesion present

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Experiment Number: 20316 - 01

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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	
FISCHER 344 RATS MALE	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	
	50 %										
	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	
		5	5	5	5	5	5	5	5	6	
		1	2	3	4	5	6	7	8	9	0
* TOTALS											
Renal Tubule, Casts Granular		2	2	1	3	1	1	2	1	1	2
Renal Tubule, Degeneration		1	1	1	1	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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Experiment Number: 20316 - 01

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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
		9	9	7	9	9	9	9	9	7	9	9	9	9
100 %	ANIMAL ID	3	3	3	3	3	3	3	3	9	3	3	3	3
		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
		6	6	6	6	6	6	6	6	6	6	7	7	7
		1	2	3	4	5	6	7	8	9	0			
* TOTALS														

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
Inflammation	1	1	1	1	1	1	1			1	1			9 1.0
Necrosis, Focal							1							1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+				10
Atrophy										2				1 2.0
Infiltration Cellular, Mononuclear Cell									1	1	2			3 1.3
Salivary Glands	+	+	+	+	+	+	+	+	+	+				10
Submandibular Gland, Vacuolization	2	2		2								2		4 2.0
Cytoplasmic														
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+				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

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 %	ANIMAL ID	9	9	7	9	9	9	9	7	9	
		3	3	9	3	3	3	3	9	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	
		6	6	6	6	6	6	6	6	7	
		1	2	3	4	5	6	7	8	9	
											* TOTALS

Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10
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CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
--------------	---	---	---	---	---	---	---	---	---	---	-----------

Heart	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	-----------

Cardiomyopathy	2	1	1	2	1	1	2	1	1	1	10 1.3
----------------	---	---	---	---	---	---	---	---	---	---	---------------

Epicardium, Hyperplasia							2				1 2.0
-------------------------	--	--	--	--	--	--	---	--	--	--	--------------

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	-----------

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
-----------------	---	---	---	---	---	---	---	---	---	---	-----------

Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
--------------------	---	---	---	---	---	---	---	---	---	---	-----------

Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
-------------------	---	---	---	---	---	---	---	---	---	---	-----------

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
-----------------	---	---	---	---	---	---	---	---	---	---	-----------

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
---------------	---	---	---	---	---	---	---	---	---	---	-----------

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	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

FISCHER 344 RATS MALE 100 %	DAY ON TEST										ANIMAL ID			
	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				
	0	0	0	0	0	0	0	0	0	0	0 0 2 6 1			
	* TOTALS													
Inflammation	1					1							2 1.0	
Preputial Gland Inflammation, Focal, Chronic	+	+	+	+	+	+	+	+	+	+	2 1		1	10 3 1.3
Prostate	+	+	+	+	+	+	+	+	+	+				10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+				10
Testes	+	+	+	+	+	+	+	+	+	+				10
HEMATOPOIETIC SYSTEM														
Bone Marrow Hyperplasia	+	+	+	+	+	+	+	+	+	+	1 1	1 1	1 2 1	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
INTEGUMENTARY SYSTEM														
Mammary Gland	+	+	+	+	+	+	+	+	+	+				10
Skin Hair Follicle, Site Of Application, Hyperplasia	+	+	+	+	+	+	+	+	+	+	2 3	3 2	2 2 1 1 2 1	10 9 1.8
Sebaceous Gland, Site Of Application, Hyperplasia	3	3	3	3	3	3	3	3	3	3				10 3.0

* .. 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:

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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	7	9	9	9	9	9	7	9	
FISCHER 344 RATS MALE	3	3	9	3	3	3	3	3	9	3	
100 %											
ANIMAL ID	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

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

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			
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			
	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		
Eye	+	+	+	+	+	+	+	+	+	+			10
Harderian Gland	+	+	+	+	+	+	+	+	+	+			10
URINARY SYSTEM													
Kidney	+	+	+	+	+	+	+	+	+	+			10
Accumulation, Hyaline Droplet	3	3	3	3	3	3	3	3	3	3			10 3.0
Infiltration Cellular, Mononuclear Cell	1												1 1.0
Mineralization	2		1	1	1		1	1	1	1			8 1.1
Nephropathy	2	2	2	2	2	2	2	2	2	2			10 2.0
Renal Tubule, Casts Granular	4	3	3	4	3	4	3	3	4	4			10 3.5
Renal Tubule, Degeneration	1	1	1	1	1	1	1	1	1	1			10 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+			10
Infiltration Cellular, Mononuclear Cell						1							1 1.0
Serosa, Mineralization, Focal							1						1 1.0

*** 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

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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

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

ALIMENTARY SYSTEM

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

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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	
FISCHER 344 RATS FEMALE		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	
UNTREATED	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	
		7	7	7	7	7	7	7	7	8	
		1	2	3	4	5	6	7	8	9	0
* TOTALS											

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	1	1	1	1	1	1	1	1	1	1	10 1.0
Inflammation, Chronic Active		2									1 2.0

ENDOCRINE SYSTEM

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	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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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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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
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
Thymus	+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM											
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

FISCHER 344 RATS FEMALE 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
		9	9	9	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	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	2	2	2	2	2	2	2	2	2
		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8
		1	2	3	4	5	6	7	8	9	0								
* TOTALS																			

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Inflammation	1		1			1													3 1.0
Metaplasia, Osseous			1																1 1.0

Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell																			1 1.0

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
-----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Infarct, Focal, Chronic							X												1
Mineralization	1				1	1			1	1									5 1.0

Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell		1			1			1	1										5 1.0

* .. 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 FEMALE	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/>										
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
	8	8	8	8	8	8	8	8	8	8	9
	1	2	3	4	5	6	7	8	9	0	
* TOTALS											

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

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 FEMALE		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
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	2	2	2
		8	8	8	8	8	8	8	8	8	9
		1	2	3	4	5	6	7	8	9	0
* TOTALS											

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

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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
	9	9	9	9	9	9	9	9	9	9	
3	3	3	3	3	3	3	3	3	3	3	0 %
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	
	8	8	8	8	8	8	8	8	8	9	
	1	2	3	4	5	6	7	8	9	0	* TOTALS
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	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
Thymus	+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM											
Bone	+	+	+	+	+	+	+	+	+	+	10
NERVOUS SYSTEM											
Brain	+	+	+	+	+	+	+	+	+	+	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	FISCHER 344 RATS FEMALE
	9	9	9	9	9	9	9	9	9	9	
0 %	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
	8	8	8	8	8	8	8	8	8	9	
	1	2	3	4	5	6	7	8	9	0	* TOTALS

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

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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	FISCHER 344 RATS FEMALE
	9	9	9	9	9	9	9	9	9	9	
6.25 %	3	3	3	3	3	3	3	3	3	3	ANIMAL ID
	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	* TOTALS

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

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 FEMALE	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	
6.25 %	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	* TOTALS	

INTEGUMENTARY SYSTEM

Skin	+	+	+	+	+	+	+	+	+	+	10
Site Of Application - Epidermis, Hyperkeratosis						1					1 1.0
Site Of Application - Epidermis, Hyperplasia	1					1	1	1			4 1.0

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 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

FISCHER 344 RATS FEMALE	DAY ON TEST	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
* TOTALS											

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10
Inflammation	1	1		1	1	1	1	1	1	1	9 1.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
---------------	---	---	---	---	---	---	---	---	---	---	-----------

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

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

INTEGUMENTARY SYSTEM

Skin	+	+	+	+	+	+	+	+	+	+	10
Hair Follicle, Site Of Application, Hyperplasia								1			1 1.0
Sebaceous Gland, Site Of Application, Hyperplasia				1	1			1	1		4 1.0

* .. 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	
	9	9	9	9	9	9	9	9	9	9	
FISCHER 344 RATS FEMALE	3	3	3	3	3	3	3	3	3	3	
12.5 %	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	
	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	
											* TOTALS
Site Of Application, Inflammation, Chronic Active	1	1	1	1			1	1	1		7 1.0
Site Of Application - Dermis, Fibrosis							1				1 1.0
Site Of Application - Epidermis, Hyperkeratosis			1	1	1		1		1		5 1.0
Site Of Application - Epidermis, Hyperplasia	1	2	2	2			2	1	2		7 1.7
Site Of Application - Epidermis, Ulcer							2				1 2.0

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	0	0	0	0
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0
25 %		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
	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			
													* TOTALS	

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

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

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

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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
FISCHER 344 RATS FEMALE		9	9	9	9	9	9	9	9	9	9	9	9	9
50 %		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
		2	2	2	2	2	2	2	2	2	2	2	3	3
		1	2	3	4	5	6	7	8	9	0			
													* TOTALS	

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

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

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:

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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	
		9	9	9	9	9	9	9	9	9	
		3	3	3	3	3	3	3	3	3	
	100 %	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	
* TOTALS											

ALIMENTARY SYSTEM

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

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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
100 %	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
	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
* TOTALS										

Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10
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CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	-----------

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
-----------------	---	---	---	---	---	---	---	---	---	---	-----------

Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
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Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
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Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Cyst				1							1 1.0

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell					2						1 2.0
Ultimobranchial Cyst					X				X		2

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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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
100 %	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	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

* TOTALS

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10

HEMATOPOIETIC SYSTEM

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

INTEGUMENTARY SYSTEM

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

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Cedarwood oil

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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	
		9	9	9	9	9	9	9	9	9	
		3	3	3	3	3	3	3	3	3	
	100 %	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	
* TOTALS											
Site Of Application - Epidermis, Hyperplasia		3	3	3	3	3	3	3	3	3	10 3.0
Site Of Application - Epidermis, Ulcer		3	3	3	3	3	4	3	3	3	10 3.1

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	10
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NERVOUS SYSTEM

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

Lung	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte										1	1 1.0
Inflammation	1				1						2 1.0

Nose	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active				2							1 2.0

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

Eye	+	+	+	+	+	+	+	+	+	+	10
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Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular				1							1 1.0

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	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 FEMALE		9	9	9	9	9	9	9	9	9	
100 %		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
* TOTALS											
Mineralization		1	1	1	1		1		1		6 1.0
Nephropathy				1							1 1.0
Urinary Bladder		+	+	+	+	+	+	+	+	+	10

*** END OF REPORT ***

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