

TDMS No. 20117 - 01

Test Type: 1-YEAR

Route: SKIN APPLICATION

Species/Strain: MICE/SKH-1/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

All-trans-retinyl palmitate

CAS Number: 79-81-2

Date Report Requested: 06/29/2009

Time Report Requested: 16:29:37

First Dose M/F: 06/22/03 / NA

Lab: NCTR

C Number: C20117

Lock Date: 12/01/2008

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Male

TDMSE Version: 2.1.0

TDMS No. 20117 - 01
Test Type: 1-YEAR
Route: SKIN APPLICATION
Species/Strain: MICE/SKH-1/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
All-trans-retinyl palmitate
CAS Number: 79-81-2

Date Report Requested: 06/29/2009
Time Report Requested: 16:29:37
First Dose M/F: 06/22/03 / NA
Lab: NCTR

DAY ON TEST	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
	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	
	3	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	6		
	1	4	8	8	8	8	8	8	8	8	0	8	8	8	8	8	0	8	8	8	8	8	8	8	0	8		
SKH-1 HAIRLESS MICE (NCTR)	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
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
NO CREAMNO SSL-M	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
ANIMAL ID	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	males (cont...)
	5	6	7	8	9	0	2	3	4	5	6	7	8	9	0	1	2	4	5	6	7	8	9	0	1			

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion																													X
Hyperplasia, Squamous						2																							X
Epidermis, Inflammation, Suppurative						2																							

* .. 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
Page 2

	DAY ON TEST	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	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3
		3	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	6	
		1	4	8	8	8	8	8	8	8	8	0	8	8	8	8	8	0	8	8	8	8	8	0	8	
SKH-1 HAIRLESS MICE (NCTR)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MICE MALE		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
NO CREAMNO SSL-M		4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	7	7	
		5	6	7	8	9	0	2	3	4	5	6	7	8	9	0	1	2	4	5	6	7	8	9	0	

males (cont...)

Skin, Site Of Application
Cyst Epithelial Inclusion

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
							X	X																	X

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

l .. 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

	0	0	0	0	0	0	0	0	0
DAY ON TEST	3	3	3	3	3	1	3	3	2
	6	6	6	6	6	9	6	6	7
	8	8	8	8	8	3	8	8	7
.....									
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0
MICE MALE	7	7	7	7	7	7	7	7	7
	2	2	2	2	2	2	2	2	2
ANIMAL ID	7	7	7	7	7	7	7	7	8
NO CREAMNO SSL-M	2	3	4	5	6	7	8	9	0
									* TOTALS

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

Skin, Control	+	+	+	+	+	+	+	+	+	34
Cyst Epithelial Inclusion										2
Hyperplasia, Squamous										1 2.0
Epidermis, Inflammation, Suppurative										1 2.0

* .. 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

	0	0	0	0	0	0	0	0	0
DAY ON TEST	3	3	3	3	3	1	3	3	2
	6	6	6	6	6	9	6	6	7
	8	8	8	8	8	3	8	8	7

SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0
MICE MALE	7	7	7	7	7	7	7	7	7
	2	2	2	2	2	2	2	2	2
ANIMAL ID	7	7	7	7	7	7	7	7	8
NO CREAMNO SSL-M	2	3	4	5	6	7	8	9	0
									* TOTALS

Skin, Site Of Application	+	+	+	+	+	+	+	+	+	34
Cyst Epithelial Inclusion										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

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BLANK .. Not examined microscopically

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1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0	
	0	6	3	6	6	6	6	2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	5	8	1	8	8	8	8	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	5	
.....																											
SKH-1 HAIRLESS MICE (NCTR)	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
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
ANIMAL ID	2	2	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
PH 7.0 NO SSL-M	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		

males
(cont...)

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Abscess																									4	
Cyst Epithelial Inclusion										X																X
Dermis, Inflammation, Suppurative																										

* .. 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

DAY ON TEST	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
	0	6	3	6	6	6	6	2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	5	8	1	8	8	8	8	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	5
SKH-1 HAIRLESS MICE (NCTR)	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
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
PH 7.0 NO SSL-M	2	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
ANIMAL ID	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	males (cont...)

Dermis, Inflammation, Chronic Active
Epidermis, Ulcer

Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion							X				X				X	X						X				
Hyperplasia, Squamous Atypical, One, Focal																						X				
Hyperplasia, Squamous	1								2					2												1
Dermis, Inflammation, Chronic Active									2								3									
Epidermis, Ulcer									2																	

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

	0	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST	3	3	3	3	3	3	3	3	2	3	3	
	2	6	6	4	6	6	6	6	0	6	6	
	0	8	8	7	8	8	8	8	9	8	8	
.....												
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0	
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	
	3	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	1	1	1	1	1	1	1	
PH 7.0 NO SSL-M	6	7	8	9	0	1	2	3	4	5	6	* TOTALS

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	36
Abscess		4				4		4				4 4.0
Cyst Epithelial Inclusion												2
Dermis, Inflammation, Suppurative								3				1 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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0		
	3	3	3	3	3	3	3	3	2	3	3		
	2	6	6	4	6	6	6	6	0	6	6		
	0	8	8	7	8	8	8	8	9	8	8		
<hr/>													
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0		
MICE MALE	7	7	7	7	7	7	7	7	7	7	7		
	3	3	3	3	3	3	3	3	3	3	3		
ANIMAL ID	0	0	0	0	1	1	1	1	1	1	1		
PH 7.0 NO SSL-M	6	7	8	9	0	1	2	3	4	5	6		
												* TOTALS	
Dermis, Inflammation, Chronic Active												3	1 3.0
Epidermis, Ulcer												4	1 4.0
<hr/>													
Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	36	
Cyst Epithelial Inclusion												5	
Hyperplasia, Squamous Atypical, One, Focal												4	
Hyperplasia, Squamous												2	1 1.5
Dermis, Inflammation, Chronic Active												1	3 2.0
Epidermis, Ulcer													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

DAY ON TEST	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	3	3	3	3	3	3	3	2	3	3	2	3	3	3	3	3	3	3	0	3	3	3	2		
	8	8	6	6	6	6	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	8		
	3	9	8	8	8	8	2	0	8	8	8	8	2	8	8	8	8	8	8	8	2	8	8	8	3		
.....																											
SKH-1 HAIRLESS MICE (NCTR)	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
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
NO CREAM6.75SSLM	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ANIMAL ID	8	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	1	1	1	1	1	
	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3		

males (cont...)

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

.....																											
Skin, Control	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Abscess												4												4			
Cyst Epithelial Inclusion										X						X											
Inflammation, Suppurative																											4

* .. 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

DAY ON TEST	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	3	3	3	3	3	3	3	2	3	3	2	3	3	3	3	3	3	0	3	3	3	2	
	8	8	6	6	6	6	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	8	
	3	9	8	8	8	8	2	0	8	8	8	8	2	8	8	8	8	8	8	2	8	8	8	3	
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
NO CREAM6.75SSLM	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	
ANIMAL ID	8	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	1	1	1	1	1	
	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3

males (cont...)

Necrosis 4

Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion			X											X										
Hyperplasia, Squamous Atypical, One, Focal			X																X					
Hyperplasia, Squamous Atypical, Two, Focal																						X		
Hyperplasia, Squamous Atypical, Four, Focal																X								
Hyperplasia, Squamous Atypical, Five, Focal				X	X																			
Hyperplasia, Squamous					2											2						2		
Dermis, Inflammation, Chronic Active					1										3							2		
Epidermis, Inflammation, Suppurative					1																			
Epidermis, Necrosis																								
Epidermis, Ulcer					2																			

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY 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

DAY ON TEST	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	3	3	3	3	3	3	3	2	3	3	2	3	3	3	3	3	3	3	0	3	3	3	2
	8	8	6	6	6	6	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	8	
	3	9	8	8	8	8	2	0	8	8	8	8	8	2	8	8	8	8	8	2	8	8	8	3	
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	
NO CREAM6.75SSLM	8	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	1	1	1	1	
	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3

males (cont...)

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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	
	2	3	3	3	3	3	3	3	3	3	3	
	1	6	6	6	6	6	5	4	6	6	6	
	9	8	8	8	8	8	4	7	8	8	8	
.....												
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0	
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	
	4	4	4	4	4	4	4	4	4	4	4	
ANIMAL ID	1	1	1	1	1	1	2	2	2	2	2	
NO CREAM6.75SSLM	4	5	6	7	8	9	0	1	2	3	4	* TOTALS

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	35
Abscess												2 4.0
Cyst Epithelial Inclusion				X				X			X	6
Inflammation, Suppurative												1 4.0

* .. 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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0
	2	3	3	3	3	3	3	3	3	3	3
	1	6	6	6	6	6	5	4	6	6	6
	9	8	8	8	8	8	4	7	8	8	8
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0
MICE MALE	7	7	7	7	7	7	7	7	7	7	7
NO CREAM6.75SSLM	4	4	4	4	4	4	4	4	4	4	4
ANIMAL ID	1	1	1	1	1	1	2	2	2	2	2
	4	5	6	7	8	9	0	1	2	3	4
	* TOTALS										

Necrosis												1 4.0
Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	35
Cyst Epithelial Inclusion				X				X				4
Hyperplasia, Squamous Atypical, One, Focal							X		X	X		5
Hyperplasia, Squamous Atypical, Two, Focal												1
Hyperplasia, Squamous Atypical, Four, Focal												1
Hyperplasia, Squamous Atypical, Five, Focal												2
Hyperplasia, Squamous Dermis, Inflammation, Chronic Active							2					4 2.0
Epidermis, Inflammation, Suppurative												3 2.0
Epidermis, Necrosis												1 1.0
Epidermis, Ulcer							1					1 1.0
												1 2.0

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY 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

	0	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST	2	3	3	3	3	3	3	3	3	3	3	
	1	6	6	6	6	6	5	4	6	6	6	
	9	8	8	8	8	8	4	7	8	8	8	
.....												
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0	
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	
	4	4	4	4	4	4	4	4	4	4	4	
ANIMAL ID	1	1	1	1	1	1	2	2	2	2	2	
NO CREAM6.75SSLM	4	5	6	7	8	9	0	1	2	3	4	* TOTALS

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

l .. 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

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
DAY ON TEST	3	2	2	2	3	2	0	2	1	2	2	3	2	1	3	2	2	3	2	2	0	2	2	2	2	
	1	8	6	9	2	7	2	5	9	6	5	1	7	8	2	9	2	6	2	4	1	3	7	7	6	
	7	3	1	1	7	7	3	4	2	3	4	3	7	1	0	9	9	8	2	9	6	5	1	6	3	
.....																										
SKH-1 HAIRLESS MICE (NCTR)	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	
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
ANIMAL ID	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4		
PH 7.0 6.75SSLM	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	

males (cont...)

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Abscess																								
Cyst Epithelial Inclusion	X		X								X							X			X			X
Hyperplasia, Squamous																								

* .. 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

	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
DAY ON TEST	3	2	2	2	3	2	0	2	1	2	2	3	2	1	3	2	2	3	2	2	0	2	2	2	2	2	2	2
	1	8	6	9	2	7	2	5	9	6	5	1	7	8	2	9	2	6	2	4	1	3	7	7	6	6	6	6
	7	3	1	1	7	7	3	4	2	3	4	3	7	1	0	9	9	8	2	9	6	5	1	6	3	3	3	3
SKH-1 HAIRLESS MICE (NCTR)	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
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
ANIMAL ID	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
PH 7.0 6.75SSLM	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	9	9	9

males (cont...)

Dermis, Inflammation, Chronic Active	4																										
Epidermis, Inflammation, Suppurative																											
Epidermis, Necrosis																											
Skin, Site Of Application	+ +																										
Abscess	4																										
Cyst Epithelial Inclusion																											
Hyperplasia, Squamous Atypical, One, Focal																											
Hyperplasia, Squamous Atypical, Two, Focal																											
Hyperplasia, Squamous Atypical, Three, Focal																											
Hyperplasia, Squamous Atypical, Four, Focal																											
Hyperplasia, Squamous Atypical, Five, Focal																											
Hyperplasia, Squamous Atypical, Greater Than Five, Focal																											
Hyperplasia, Squamous	1 1 2 2 2 2 3 2 2 2 1																										
Dermis, Inflammation, Chronic Active	2 2 1 1																										
Epidermis, Necrosis	1 2																										

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS 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

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TDMS No. 20117 - 01
 Test Type: 1-YEAR
 Route: SKIN APPLICATION
 Species/Strain: MICE/SKH-1/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 All-trans-retinyl palmitate
 CAS Number: 79-81-2

Date Report Requested: 06/29/2009
 Time Report Requested: 16:29:37
 First Dose M/F: 06/22/03 / NA
 Lab: NCTR

DAY ON TEST	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	2	2	2	3	2	0	2	1	2	2	3	2	1	3	2	2	3	2	2	0	2	2	2	2
	1	8	6	9	2	7	2	5	9	6	5	1	7	8	2	9	2	6	2	4	1	3	7	7	6
	7	3	1	1	7	7	3	4	2	3	4	3	7	1	0	9	9	8	2	9	6	5	1	6	3
SKH-1 HAIRLESS MICE (NCTR)	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
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
PH 7.0 6.75SSLM	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ANIMAL ID	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9

males
(cont...)

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

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	
	3	2	2	2	2	3	2	2	2	2	2	
	2	9	6	3	6	4	0	9	6	3	8	
	0	9	9	3	3	0	8	2	2	5	3	
.....												
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0	
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	
	4	4	4	4	4	4	4	4	4	4	4	
ANIMAL ID	5	5	5	5	5	5	5	5	5	5	6	
PH 7.0 6.75SSLM	0	1	2	3	4	5	6	7	8	9	0	* TOTALS

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	36
Abscess				4								1 4.0
Cyst Epithelial Inclusion												6
Hyperplasia, Squamous							3					1 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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0		
	3	2	2	2	2	3	2	2	2	2	2		
	2	9	6	3	6	4	0	9	6	3	8		
	0	9	9	3	3	0	8	2	2	5	3		
<hr/>													
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0		
MICE MALE	7	7	7	7	7	7	7	7	7	7	7		
ANIMAL ID	4	4	4	4	4	4	4	4	4	4	4		
	5	5	5	5	5	5	5	5	5	5	6		
PH 7.0 6.75SSLM	0	1	2	3	4	5	6	7	8	9	0		* TOTALS
Dermis, Inflammation, Chronic Active												3	2 3.5
Epidermis, Inflammation, Suppurative												3	1 3.0
Epidermis, Necrosis												3	1 3.0
<hr/>													
Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+		36
Abscess													1 4.0
Cyst Epithelial Inclusion		X						X					6
Hyperplasia, Squamous Atypical, One, Focal							X						2
Hyperplasia, Squamous Atypical, Two, Focal													2
Hyperplasia, Squamous Atypical, Three, Focal	X				X								5
Hyperplasia, Squamous Atypical, Four, Focal										X			3
Hyperplasia, Squamous Atypical, Five, Focal													2
Hyperplasia, Squamous Atypical, Greater Than Five, Focal		X	X			X		X	X				14
Hyperplasia, Squamous		3		2	2	2	1	3		2			23 2.0
Dermis, Inflammation, Chronic Active	2					1						1	9 1.4
Epidermis, Necrosis												1	3 1.3

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS 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

	0	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST	3	2	2	2	2	3	2	2	2	2	2	
	2	9	6	3	6	4	0	9	6	3	8	
	0	9	9	3	3	0	8	2	2	5	3	
.....												
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0	
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	
	4	4	4	4	4	4	4	4	4	4	4	
ANIMAL ID	5	5	5	5	5	5	5	5	5	5	6	
PH 7.0 6.75SSLM	0	1	2	3	4	5	6	7	8	9	0	* TOTALS

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

l .. 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

TDMS No. 20117 - 01
 Test Type: 1-YEAR
 Route: SKIN APPLICATION
 Species/Strain: MICE/SKH-1/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 All-trans-retinyl palmitate
 CAS Number: 79-81-2

Date Report Requested: 06/29/2009
 Time Report Requested: 16:29:37
 First Dose M/F: 06/22/03 / NA
 Lab: NCTR

DAY ON TEST	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
	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	0	2	2	2	2	2	2	2
	9	2	3	6	7	7	9	7	4	5	5	7	4	5	5	3	8	0	8	7	0	7	6	7	4	
	2	8	5	2	0	6	9	6	3	4	5	6	8	5	6	4	5	7	3	6	7	0	2	6	2	
SKH-1 HAIRLESS MICE (NCTR)	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	
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
.1% RP 6.75SSLM	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
ANIMAL ID	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

males
(cont...)

ALIMENTARY SYSTEM
 NONE

CARDIOVASCULAR SYSTEM
 NONE

ENDOCRINE SYSTEM
 NONE

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM
 NONE

HEMATOPOIETIC SYSTEM
 NONE

INTEGUMENTARY SYSTEM

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Abscess											4														
Cyst Epithelial Inclusion																									
Dermis, Inflammation, Chronic Active																									

* .. 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

TDMS No. 20117 - 01
 Test Type: 1-YEAR
 Route: SKIN APPLICATION
 Species/Strain: MICE/SKH-1/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 All-trans-retinyl palmitate
 CAS Number: 79-81-2

Date Report Requested: 06/29/2009
 Time Report Requested: 16:29:37
 First Dose M/F: 06/22/03 / NA
 Lab: NCTR

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	0	2	2	2	2	2
	9	2	3	6	7	7	9	7	4	5	5	7	4	5	5	3	8	0	8	7	0	7	6	7
	2	8	5	2	0	6	9	6	3	4	5	6	8	5	6	4	5	7	3	6	7	0	2	6
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

SKH-1 HAIRLESS MICE (NCTR)
MICE MALE
 ANIMAL ID
.1% RP 6.75SSLM

males (cont...)

Epidermis, Inflammation, Suppurative																									3	
Epidermis, Ulcer																										3
Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Squamous Atypical, One, Focal											X															
Hyperplasia, Squamous Atypical, Two, Focal																										
Hyperplasia, Squamous Atypical, Four, Focal																			X						X	
Hyperplasia, Squamous Atypical, Five, Focal					X							X	X							X						
Hyperplasia, Squamous Atypical, Greater Than Five, Focal		X	X		X	X	X	X		X	X	X			X	X			X		X	X				
Hyperplasia, Squamous	2	2	2	2	2	2		2	3	1	2	3	1	2	2	2	3	1	2	2	2	2	3	2		
Dermis, Inflammation, Chronic Active					1				1		1			2		1					2	1	2	3		
Epidermis, Inflammation, Suppurative																					2		1	2		
Epidermis, Necrosis								1	2					2						1		2		2		
Epidermis, Ulcer													3		2						2			2		

MUSCULOSKELETAL SYSTEM
 NONE

NERVOUS SYSTEM
 NONE

RESPIRATORY 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
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TDMS No. 20117 - 01
 Test Type: 1-YEAR
 Route: SKIN APPLICATION
 Species/Strain: MICE/SKH-1/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 All-trans-retinyl palmitate
 CAS Number: 79-81-2

Date Report Requested: 06/29/2009
 Time Report Requested: 16:29:37
 First Dose M/F: 06/22/03 / NA
 Lab: NCTR

	DAY ON TEST																										
	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		
	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	0	2	2	2	2	2	2		
	9	2	3	6	7	7	9	7	4	5	5	7	4	5	5	3	8	0	8	7	0	7	6	7	4		
	2	8	5	2	0	6	9	6	3	4	5	6	8	5	6	4	5	7	3	6	7	0	2	6	2		
.....																											
SKH-1 HAIRLESS MICE (NCTR)	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		
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
MICE MALE	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	6	6	6	6	6	6	6	6	6	4	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8		
.1% RP 6.75SSLM	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	males (cont...)	

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
 Page 24

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	1	2	2	2	2	
	4	6	1	3	5	2	8	5	3	3	2	
	2	9	4	3	5	6	1	6	5	5	7	
.....												
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0	
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	
	4	4	4	4	4	4	4	4	4	4	4	
ANIMAL ID	8	8	8	8	9	9	9	9	9	9	9	
.1% RP 6.75SSLM	6	7	8	9	0	1	2	3	4	5	6	* TOTALS

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	36
Abscess			4						4		4	4 4.0
Cyst Epithelial Inclusion												1
Dermis, Inflammation, Chronic Active												1 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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	1	2	2	2	2
	4	6	1	3	5	2	8	5	3	3	2
	2	9	4	3	5	6	1	6	5	5	7
.....											
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0
MICE MALE	7	7	7	7	7	7	7	7	7	7	7
.1% RP 6.75SSLM	4	4	4	4	4	4	4	4	4	4	4
ANIMAL ID	8	8	8	8	9	9	9	9	9	9	9
	6	7	8	9	0	1	2	3	4	5	6
											* TOTALS

Epidermis, Inflammation, Suppurative											1 3.0		
Epidermis, Ulcer											1 3.0		
.....													
Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	36	
Hyperplasia, Squamous Atypical, One, Focal							X				X	3	
Hyperplasia, Squamous Atypical, Two, Focal						X			X			2	
Hyperplasia, Squamous Atypical, Four, Focal											2		
Hyperplasia, Squamous Atypical, Five, Focal				X								5	
Hyperplasia, Squamous Atypical, Greater Than Five, Focal	X	X	X			X			X			21	
Hyperplasia, Squamous	2	3			2	2	2	3	2			32 2.1	
Dermis, Inflammation, Chronic Active						2						12 1.6	
Epidermis, Inflammation, Suppurative							1			1			7 1.3
Epidermis, Necrosis										2			9 1.7
Epidermis, Ulcer					3	1			2			7 2.1	

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY 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
 Page 26

TDMS No. 20117 - 01

Test Type: 1-YEAR

Route: SKIN APPLICATION

Species/Strain: MICE/SKH-1/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

All-trans-retinyl palmitate

CAS Number: 79-81-2

Date Report Requested: 06/29/2009

Time Report Requested: 16:29:37

First Dose M/F: 06/22/03 / NA

Lab: NCTR

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	1	2	2	2	2
	4	6	1	3	5	2	8	5	3	3	2
	2	9	4	3	5	6	1	6	5	5	7

SKH-1 HAIRLESS MICE (NCTR)
MICE MALE

ANIMAL ID

.1% RP 6.75SSLM

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

* TOTALS

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

Page 27

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	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	1	1	2	2	2	2
	6	5	3	7	0	7	7	1	1	2	4	2	3	3	4	1	4	2	5	8	3	4	5	4	3
	2	5	5	0	1	0	6	4	4	8	8	1	4	6	8	4	8	9	5	0	1	0	5	1	4
SKH-1 HAIRLESS MICE (NCTR)	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
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
.5% RP 6.75SSLM	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
ANIMAL ID	9	9	9	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1

males (cont...)

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

Skin, Control
Cyst Epithelial Inclusion

+ +

* .. 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

TDMS No. 20117 - 01
 Test Type: 1-YEAR
 Route: SKIN APPLICATION
 Species/Strain: MICE/SKH-1/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 All-trans-retinyl palmitate
 CAS Number: 79-81-2

Date Report Requested: 06/29/2009
 Time Report Requested: 16:29:37
 First Dose M/F: 06/22/03 / NA
 Lab: NCTR

| DAY ON TEST | Animals | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |
|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|--|
| | 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 | 1 | 1 | 2 | 2 | 2 | 2 | | |
| 6 | 5 | 3 | 7 | 0 | 7 | 7 | 1 | 1 | 2 | 4 | 2 | 3 | 3 | 4 | 1 | 4 | 2 | 5 | 8 | 3 | 4 | 5 | 4 | 3 | | | |
| 2 | 5 | 5 | 0 | 1 | 0 | 6 | 4 | 4 | 8 | 8 | 1 | 4 | 6 | 8 | 4 | 8 | 9 | 5 | 0 | 1 | 0 | 5 | 1 | 4 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR)
MICE MALE
.5% RP 6.75SSLM | 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 | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| | ANIMAL ID | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | |
| 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | males
(cont...) | | |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia, Squamous Atypical, One, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Hyperplasia, Squamous Atypical, Three, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Hyperplasia, Squamous Atypical, Four, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Hyperplasia, Squamous Atypical, Five, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous Atypical, Greater Than Five, Focal | X | X | X | X | X | | X | | | | X | X | X | X | X | | X | X | X | X | X | | X | X | X | X | |
| Hyperplasia, Squamous Dermis, Inflammation, Chronic Active | 2 | 2 | 2 | 3 | 3 | 3 | | 3 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | | |
| Epidermis, Inflammation, Suppurative | 1 | 1 | 2 | 1 | 1 | 4 | | 2 | 1 | | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | | 1 | 2 | 2 | 1 | | |
| Epidermis, Necrosis | | | | 2 | | 2 | | 2 | | | 1 | | | 2 | | 1 | 1 | | 3 | | | 2 | 1 | 2 | 1 | | |
| Epidermis, Ulcer | | | | | 3 | | 3 | | | | | | | 2 | 3 | | | | | | | 1 | 2 | | | | |

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

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
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 20117 - 01
 Test Type: 1-YEAR
 Route: SKIN APPLICATION
 Species/Strain: MICE/SKH-1/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

All-trans-retinyl palmitate

CAS Number: 79-81-2

Date Report Requested: 06/29/2009

Time Report Requested: 16:29:37

First Dose M/F: 06/22/03 / NA

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 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 | 1 | 1 | 2 | 2 | 2 | 2 |
| | 6 | 5 | 3 | 7 | 0 | 7 | 7 | 1 | 1 | 2 | 4 | 2 | 3 | 3 | 4 | 1 | 4 | 2 | 5 | 8 | 3 | 4 | 5 | 4 | 3 |
| | 2 | 5 | 5 | 0 | 1 | 0 | 6 | 4 | 4 | 8 | 8 | 1 | 4 | 6 | 8 | 4 | 8 | 9 | 5 | 0 | 1 | 0 | 5 | 1 | 4 |
| SKH-1 HAIRLESS MICE (NCTR)
MICE MALE
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 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| .5% RP 6.75SSLM | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

males
(cont...)

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

| | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| DAY ON TEST | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | |
| | 3 | 0 | 1 | 5 | 4 | 1 | 2 | 3 | 3 | 9 | |
| | 4 | 7 | 5 | 5 | 2 | 5 | 7 | 5 | 5 | 9 | |
| | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | |
| .5% RP 6.75SSLM | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | * TOTALS |

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|-----------|
| Skin, Control | + | + | + | + | + | + | + | + | + | + | 35 |
| Cyst Epithelial Inclusion | | | | | X | | | | | | 1 |

* .. 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

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 |
| | 3 | 0 | 1 | 5 | 4 | 1 | 2 | 3 | 3 | 9 | |
| | 4 | 7 | 5 | 5 | 2 | 5 | 7 | 5 | 5 | 9 | |
| <hr/> | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| .5% RP 6.75SSLM | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | |
| | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | |
| | | | | | | | | | | | * TOTALS |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | 35 |
| Hyperplasia, Squamous Atypical, One, Focal | | | | | | | | | | | 1 |
| Hyperplasia, Squamous Atypical, Three, Focal | X | | | | | | | | | | 2 |
| Hyperplasia, Squamous Atypical, Four, Focal | | | | X | | | | | | | 2 |
| Hyperplasia, Squamous Atypical, Five, Focal | | | X | | X | | X | | | | 3 |
| Hyperplasia, Squamous Atypical, Greater Than Five, Focal | | | | | | X | | X | X | | 23 |
| Hyperplasia, Squamous Dermis, Inflammation, Chronic Active | 1 | 4 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 34 2.4 |
| Epidermis, Inflammation, Suppurative | | 4 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | | 30 1.7 |
| Epidermis, Necrosis | | 4 | | 1 | | | | | | | 8 2.3 |
| Epidermis, Ulcer | | 3 | | | 2 | | | | | | 14 1.8 |
| | | 4 | | 2 | | | | | | | 8 2.5 |

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

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

BLANK .. Not examined microscopically

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

| | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DAY ON TEST | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 |
| | 3 | 0 | 1 | 5 | 4 | 1 | 2 | 3 | 3 | 9 |
| | 4 | 7 | 5 | 5 | 2 | 5 | 7 | 5 | 5 | 9 |
| | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| .5% RP 6.75SSLM | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 |
| | | | | | | | | | | * TOTALS |

NONE

URINARY SYSTEM

NONE

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 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 |
| | 8 | 4 | 7 | 8 | 7 | 8 | 8 | 7 | 6 | 6 | 8 | 8 | 8 | 6 | 9 | 6 | 8 | 7 | 8 | 5 | 6 | 9 | 8 | 7 |
| | 3 | 6 | 1 | 3 | 1 | 3 | 4 | 6 | 4 | 4 | 4 | 4 | 5 | 9 | 9 | 9 | 5 | 7 | 5 | 0 | 2 | 2 | 5 | 0 |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| NO CREAM13.7SSLM | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

males
(cont...)

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin, Control | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | X | | | | | | | | | | X |
| Hyperplasia, Squamous | | | | | | | | | | | | | | 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
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

| DAY ON TEST | 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 |
| | 8 | 4 | 7 | 8 | 7 | 8 | 8 | 7 | 6 | 6 | 8 | 8 | 8 | 6 | 9 | 6 | 8 | 7 | 8 | 5 | 6 | 9 | 8 | 7 | 7 |
| | 3 | 6 | 1 | 3 | 1 | 3 | 4 | 6 | 4 | 4 | 4 | 4 | 5 | 9 | 9 | 9 | 5 | 7 | 5 | 0 | 2 | 2 | 5 | 0 | 7 |
| SKH-1 HAIRLESS MICE (NCTR) | 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 |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| NO CREAM13.7SSLM | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males (cont...)

Inflammation, Suppurative
 Dermis, Inflammation, Chronic Active 4 2 3
 Epidermis, Inflammation, Suppurative 3
 Epidermis, Ulcer 4

Skin, Site Of Application +
 Cyst Epithelial Inclusion X X
 Hyperplasia, Squamous Atypical, One, Focal X
 Hyperplasia, Squamous Atypical, Two, Focal X X X X
 Hyperplasia, Squamous Atypical, Three, Focal X X X X
 Hyperplasia, Squamous Atypical, Four, Focal X X X X
 Hyperplasia, Squamous Atypical, Five, Focal X X X X
 Hyperplasia, Squamous Atypical, Greater Than Five, Focal X X X X X X
 Hyperplasia, Squamous Dermis, Inflammation, Chronic Active 2 1 2 1 2 3 2 2 2 1 1 2 1 2 1 1 1 2 2
 Epidermis, Inflammation, Suppurative 2
 Epidermis, Necrosis 2 1
 Epidermis, Ulcer

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS 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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DAY ON TEST | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 8 | 4 | 7 | 8 | 7 | 8 | 8 | 7 | 6 | 6 | 8 | 8 | 8 | 6 | 9 | 6 | 8 | 7 | 8 | 5 | 6 | 9 | 8 | 7 |
| | 3 | 6 | 1 | 3 | 1 | 3 | 4 | 6 | 4 | 4 | 4 | 4 | 5 | 9 | 9 | 9 | 5 | 7 | 5 | 0 | 2 | 2 | 5 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| MICE MALE | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
| NO CREAM13.7SSLM | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

males (cont...)

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

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| DAY ON TEST | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | |
| | 4 | 5 | 6 | 6 | 9 | 9 | 2 | 9 | 7 | 6 | 3 | |
| | 3 | 5 | 3 | 9 | 9 | 2 | 7 | 2 | 8 | 2 | 9 | |
| | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| ANIMAL ID | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| NO CREAM13.7SSLM | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | * TOTALS |

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Skin, Control | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Abscess | | | 3 | | | | | | | 4 | | 2 3.5 |
| Cyst Epithelial Inclusion | | | | | | | | X | | | | 3 |
| Hyperplasia, Squamous | | | 3 | | | | | | | 2 | | 3 2.7 |

* .. 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

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|--|---|---|---|---|---|---|---|---|---|---|---|-----------------|---------------|
| | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | | |
| | 4 | 5 | 6 | 6 | 9 | 9 | 2 | 9 | 7 | 6 | 3 | | |
| | 3 | 5 | 3 | 9 | 9 | 2 | 7 | 2 | 8 | 2 | 9 | | |
| <hr/> | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| ANIMAL ID | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| NO CREAM13.7SSLM | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | | |
| | | | | | | | | | | | | * TOTALS | |
| Inflammation, Suppurative | | | | | | | | | | | | 4 | 1 4.0 |
| Dermis, Inflammation, Chronic Active | | | | | | | | | | | | 2 | 4 2.8 |
| Epidermis, Inflammation, Suppurative | | | | | | | | | | | | | 1 3.0 |
| Epidermis, Ulcer | | | | | | | | | | | | | 1 4.0 |
| <hr/> | | | | | | | | | | | | | |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | | 36 |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | 3 |
| Hyperplasia, Squamous Atypical, One, Focal | | | | | | | | | | | | | 3 |
| Hyperplasia, Squamous Atypical, Two, Focal | | | | | | | | | | | | | 6 |
| Hyperplasia, Squamous Atypical, Three, Focal | | | | | | | | | | | | | 5 |
| Hyperplasia, Squamous Atypical, Four, Focal | | | | | | | | | | | | | 5 |
| Hyperplasia, Squamous Atypical, Five, Focal | | | | | | | | | | | | | 3 |
| Hyperplasia, Squamous Atypical, Greater Than Five, Focal | | | | | | | | | | | | | 10 |
| Hyperplasia, Squamous | 2 | 1 | 2 | 2 | | 2 | | 1 | | 2 | | | 26 1.7 |
| Dermis, Inflammation, Chronic Active | | | | | | | | | | | | 1 | 5 1.6 |
| Epidermis, Inflammation, Suppurative | | | | | | | | | | | | | 1 3.0 |
| Epidermis, Necrosis | | | | | | | | | | | | | 3 1.7 |
| Epidermis, Ulcer | | | | | | | | | | | | | 1 4.0 |

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS 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

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| DAY ON TEST | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | |
| | 4 | 5 | 6 | 6 | 9 | 9 | 2 | 9 | 7 | 6 | 3 | |
| | 3 | 5 | 3 | 9 | 9 | 2 | 7 | 2 | 8 | 2 | 9 | |
| | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| ANIMAL ID | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| NO CREAM13.7SSLM | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | * TOTALS |

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

l .. 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

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | 1 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |
| | 2 | 3 | 5 | 7 | 7 | 5 | 5 | 4 | 7 | 5 | 9 | 3 | 4 | 4 | 0 | 5 | 7 | 5 | 9 | 4 | 9 | 6 | 9 | 7 | 7 |
| | 6 | 4 | 0 | 1 | 1 | 0 | 5 | 3 | 6 | 4 | 8 | 7 | 1 | 1 | 2 | 7 | 7 | 7 | 2 | 0 | 9 | 2 | 2 | 0 | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 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 |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| PH 7.0 13.7SSLM | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 |
| | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 |

males (cont...)

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin, Control | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Abscess | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | |
| Dermis, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | | | | | | | | | | | | | | | | | | | | | | | |
| MICE MALE | 7 | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| PH 7.0 13.7SSLM | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | |

males
(cont...)

Epidermis, Inflammation, Suppurative 4 3
 Epidermis, Ulcer 4 3

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|-----|--|---|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|---|--|---|--|---|--|---|--|
| Skin, Site Of Application | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst Epithelial Inclusion | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous Atypical, Three, Focal | | | | | | | X | | | | | | X X | | | | | | X | | | | | | X X | | | | | | | | | |
| Hyperplasia, Squamous Atypical, Five, Focal | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous Atypical, Greater Than Five, Focal | X | | X X | | X | | X X | | X X | | X X | | X X | | X X | | X X | | X X | | X X | | X X | | | | | | | | | | | |
| Hyperplasia, Squamous Keratin Cyst | 3 | | 1 | | 1 | | 3 | | 1 | | 2 | | 4 | | 1 | | 4 | | 2 | | 2 | | 1 | | 3 | | 2 | | 2 | | 1 | | 3 | |
| Dermis, Inflammation, Chronic Active | 2 | | | | | | 2 | | | | | | 1 | | | | | | 2 | | | | | | | | | | | | | | | |
| Epidermis, Inflammation, Suppurative | | | | | | | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Epidermis, Necrosis | | | | | | | 2 | | | | | | 2 | | | | | | 2 | | | | | | | | | | | | | | | |
| Epidermis, Ulcer | | | | | | | | | | | | | 2 | | | | | | 1 | | | | | | | | | | | | | | | |
| Sebaceous Gland, Hyperplasia | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY 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

| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|-----------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |
| | 2 | 3 | 5 | 7 | 7 | 5 | 5 | 4 | 7 | 5 | 9 | 3 | 4 | 4 | 0 | 5 | 7 | 5 | 9 | 4 | 9 | 6 | 9 | 7 | 7 |
| | 6 | 4 | 0 | 1 | 1 | 0 | 5 | 3 | 6 | 4 | 8 | 7 | 1 | 1 | 2 | 7 | 7 | 7 | 2 | 0 | 9 | 2 | 2 | 0 | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| PH 7.0 13.7SSLM | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| ANIMAL ID | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 |
| | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 |

males
(cont...)

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

Page 42

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| DAY ON TEST | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | |
| | 4 | 4 | 2 | 7 | 0 | 2 | 3 | 9 | 9 | 4 | 2 | |
| | 3 | 3 | 2 | 8 | 6 | 0 | 6 | 1 | 9 | 1 | 0 | |
| | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | |
| PH 7.0 13.7SSLM | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | * TOTALS |

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Skin, Control | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Abscess | | | | 4 | | | | | | | | 2 4.0 |
| Cyst Epithelial Inclusion | | | | | | | | X | | | | 2 |
| Dermis, Inflammation, Chronic Active | | | | | | | | 3 | | | | 2 3.5 |

* .. 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:

1) Minimal 3) Moderate

2) Mild 4) Marked

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 |
| | 4 | 4 | 2 | 7 | 0 | 2 | 3 | 9 | 9 | 4 | 2 |
| | 3 | 3 | 2 | 8 | 6 | 0 | 6 | 1 | 9 | 1 | 0 |
| | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| PH 7.0 13.7SSLM | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |
| | | | | | | | | | | | * TOTALS |

| | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|--------------|---------------|
| Epidermis, Inflammation, Suppurative | | | | | | | | | | | 2 3.5 | |
| Epidermis, Ulcer | | | | | | | | | | | 2 3.5 | |
| | | | | | | | | | | | | |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Cyst Epithelial Inclusion | X | | | | X | | | | | | | 3 |
| Hyperplasia, Squamous Atypical, Three, Focal | | | | | | X | | | | | | 7 |
| Hyperplasia, Squamous Atypical, Five, Focal | | | | | | | X | | | | | 2 |
| Hyperplasia, Squamous Atypical, Greater Than Five, Focal | | X | X | | X | | | X | X | X | X | 24 |
| Hyperplasia, Squamous Keratin Cyst | 2 | 4 | | 2 | 2 | 1 | 1 | 1 | 1 | 1 | | 27 2.0 |
| Dermis, Inflammation, Chronic Active | | 3 | | | | | | | | 1 | | 8 2.1 |
| Epidermis, Inflammation, Suppurative | | 2 | | | | | | | | | | 3 1.3 |
| Epidermis, Necrosis | | 1 | | | | | | | | | | 5 1.8 |
| Epidermis, Ulcer | | 2 | | | | | | | | | | 3 1.7 |
| Sebaceous Gland, Hyperplasia | | | | | | | | | | | | 1 2.0 |

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY 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

| | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DAY ON TEST | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 |
| | 4 | 4 | 2 | 7 | 0 | 2 | 3 | 9 | 9 | 4 | 2 |
| | 3 | 3 | 2 | 8 | 6 | 0 | 6 | 1 | 9 | 1 | 0 |
| | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| PH 7.0 13.7SSLM | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |
| | | | | | | | | | | | * TOTALS |

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

l .. 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

TDMS No. 20117 - 01
 Test Type: 1-YEAR
 Route: SKIN APPLICATION
 Species/Strain: MICE/SKH-1/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 All-trans-retinyl palmitate
 CAS Number: 79-81-2

Date Report Requested: 06/29/2009
 Time Report Requested: 16:29:37
 First Dose M/F: 06/22/03 / NA
 Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| DAY ON TEST | 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 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | | |
| | 0 | 1 | 2 | 0 | 9 | 9 | 3 | 2 | 1 | 2 | 1 | 8 | 8 | 2 | 1 | 8 | 5 | 1 | 1 | 1 | 7 | 1 | 7 | 2 | 6 | | |
| | 5 | 3 | 3 | 5 | 2 | 2 | 6 | 1 | 6 | 1 | 6 | 5 | 7 | 0 | 4 | 7 | 0 | 4 | 3 | 3 | 1 | 3 | 1 | 2 | 4 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 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 | | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| .1% RP 13.7SSLM | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |

males
(cont...)

ALIMENTARY SYSTEM
 NONE

CARDIOVASCULAR SYSTEM
 NONE

ENDOCRINE SYSTEM
 NONE

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM
 NONE

HEMATOPOIETIC SYSTEM
 NONE

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Control | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 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 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 |
| | 0 | 1 | 2 | 0 | 9 | 9 | 3 | 2 | 1 | 2 | 1 | 8 | 8 | 2 | 1 | 8 | 5 | 1 | 1 | 1 | 7 | 1 | 7 | 2 | 6 |
| | 5 | 3 | 3 | 5 | 2 | 2 | 6 | 1 | 6 | 1 | 6 | 5 | 7 | 0 | 4 | 7 | 0 | 4 | 3 | 3 | 1 | 3 | 1 | 2 | 4 |
| SKH-1 HAIRLESS MICE (NCTR) | 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 |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| .1% RP 13.7SSLM | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Inflammation, Suppurative Ulcer | 4 | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Dermis, Inflammation, Chronic Active Epidermis, Ulcer | 4 | | | | 3 | | | | | | | | | | 3 | | | | | | | | | | | 4 |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Hyperplasia, Squamous Atypical, One, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous Atypical, Two, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Hyperplasia, Squamous Atypical, Three, Focal | | | | | | | | | | | X | | | | | | X | | | | | | | | | |
| Hyperplasia, Squamous Atypical, Four, Focal | | | | | | | | | | X | | | | | | | | | X | | | | | | | |
| Hyperplasia, Squamous Atypical, Five, Focal | | | | | | | | | | | X | | | | | | | | X | | | | | | | |
| Hyperplasia, Squamous Atypical, Greater Than Five, Focal | X | X | X | X | X | X | X | X | X | | | | | X | X | X | X | | X | | | X | X | X | X | |
| Hyperplasia, Squamous Dermis, Inflammation, Chronic Active Epidermis, Inflammation, Suppurative | 2 | 3 | 4 | 1 | 4 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 4 | | 2 | 4 | 4 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 |
| Epidermis, Necrosis | 1 | 2 | 2 | | 2 | | 1 | | 1 | 4 | 1 | | 2 | | 3 | 2 | 2 | 3 | 1 | 1 | 2 | 1 | | | 2 | |
| Epidermis, Ulcer | 1 | 1 | 2 | | 3 | | | | | 2 | | | | | 2 | 2 | 2 | | | | 1 | | | | 1 | |
| Sebacous Gland, Hyperplasia | | | 2 | | | | | | | 4 | | | | | 4 | 2 | | 4 | | | | | | | 2 | |

MUSCULOSKELETAL 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | 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 | |
| DAY ON TEST | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | | |
| | 0 | 1 | 2 | 0 | 9 | 9 | 3 | 2 | 1 | 2 | 1 | 8 | 8 | 2 | 1 | 8 | 5 | 1 | 1 | 1 | 7 | 1 | 7 | 2 | 6 | | |
| | 5 | 3 | 3 | 5 | 2 | 2 | 6 | 1 | 6 | 1 | 6 | 5 | 7 | 0 | 4 | 7 | 0 | 4 | 3 | 3 | 1 | 3 | 1 | 2 | 4 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 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 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| .1% RP 13.7SSLM | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |

males (cont...)

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

Page 48

| | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 9 | 1 | 0 | 1 | 0 | 9 | 9 | 2 | 6 | 7 | |
| | 0 | 8 | 5 | 6 | 5 | 8 | 9 | 9 | 8 | 0 | 8 | |
| | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| .1% RP 13.7SSLM | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | * TOTALS |

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|-------|
| Skin, Control | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Abscess | | | | 3 | | | | | | | | 2 3.5 |
| Cyst Epithelial Inclusion | | | | | | | X | | | | | 2 |
| Hyperplasia, Squamous | | | | | | | | | | | | 1 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

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 9 | 1 | 0 | 1 | 0 | 9 | 9 | 2 | 6 | 7 | |
| | 0 | 8 | 5 | 6 | 5 | 8 | 9 | 9 | 8 | 0 | 8 | |
| <hr/> | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| .1% RP 13.7SSLM | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | | | | | | | | | | | | * TOTALS |
| Inflammation, Suppurative | | | | | | | | | | | | 1 4.0 |
| Ulcer | | | | | | | | | | | | 1 4.0 |
| Dermis, Inflammation, Chronic Active | | | | | | | | | | | | 3 3.3 |
| Epidermis, Ulcer | | | | | | | | | | | | 2 4.0 |
| <hr/> | | | | | | | | | | | | |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Cyst Epithelial Inclusion | | | | | | | | | | | | 1 |
| Hyperplasia, Squamous Atypical, One, Focal | | | | | | | | | | | | 1 |
| Hyperplasia, Squamous Atypical, Two, Focal | | | | | | | | | | | | 2 |
| Hyperplasia, Squamous Atypical, Three, Focal | | | | | | | | | | | | 4 |
| Hyperplasia, Squamous Atypical, Four, Focal | | | | | | | | | | | | 3 |
| Hyperplasia, Squamous Atypical, Five, Focal | | | | | | | | | | | | 2 |
| Hyperplasia, Squamous Atypical, Greater Than Five, Focal | X | X | X | X | X | | | X | | | | 24 |
| Hyperplasia, Squamous | | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 34 2.6 |
| Dermis, Inflammation, Chronic Active | | | | | | | | | | | | 20 2.0 |
| Epidermis, Inflammation, Suppurative | | | | | | | | | | | | 7 2.4 |
| Epidermis, Necrosis | | | | | | | | | | | | 11 1.6 |
| Epidermis, Ulcer | | | | | | | | | | | | 8 3.0 |
| Sebaceous Gland, Hyperplasia | | | | | | | | | | | | 1 2.0 |

MUSCULOSKELETAL 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

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 9 | 1 | 0 | 1 | 0 | 9 | 9 | 2 | 6 | 7 | |
| | 0 | 8 | 5 | 6 | 5 | 8 | 9 | 9 | 8 | 0 | 8 | |
| | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| .1% RP 13.7SSLM | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | * TOTALS |

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

l .. 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

TDMS No. 20117 - 01
 Test Type: 1-YEAR
 Route: SKIN APPLICATION
 Species/Strain: MICE/SKH-1/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 All-trans-retinyl palmitate
 CAS Number: 79-81-2

Date Report Requested: 06/29/2009
 Time Report Requested: 16:29:37
 First Dose M/F: 06/22/03 / NA
 Lab: NCTR

| DAY ON TEST | 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 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 |
| | 6 | 0 | 6 | 6 | 0 | 6 | 5 | 9 | 2 | 9 | 9 | 8 | 7 | 8 | 8 | 7 | 9 | 9 | 1 | 8 | 8 | 8 | 7 | 2 | 7 |
| | 3 | 4 | 3 | 4 | 4 | 7 | 6 | 7 | 1 | 7 | 7 | 5 | 8 | 5 | 5 | 8 | 0 | 0 | 3 | 4 | 3 | 8 | 1 | 2 | 6 |
| SKH-1 HAIRLESS MICE (NCTR) | 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 |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| .5% RP 13.7SSLM | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ANIMAL ID | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | |
| | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

males
(cont...)

ALIMENTARY SYSTEM
 NONE

CARDIOVASCULAR SYSTEM
 NONE

ENDOCRINE SYSTEM
 NONE

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM
 NONE

HEMATOPOIETIC SYSTEM
 NONE

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin, Control | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. 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

| DAY ON TEST | 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 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | |
| | 6 | 0 | 6 | 6 | 0 | 6 | 5 | 9 | 2 | 9 | 9 | 8 | 7 | 8 | 8 | 7 | 9 | 9 | 1 | 8 | 8 | 8 | 7 | 2 | 7 |
| | 3 | 4 | 3 | 4 | 4 | 7 | 6 | 7 | 1 | 7 | 7 | 5 | 8 | 5 | 5 | 8 | 0 | 0 | 3 | 4 | 3 | 8 | 1 | 2 | 6 |
| SKH-1 HAIRLESS MICE (NCTR) | 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 |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| .5% RP 13.7SSLM | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ANIMAL ID | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

males (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dermis, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Epidermis, Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Abscess | | | 4 | | | | | | | | | | | 4 | | | | | | | | | | | |
| Cyst Epithelial Inclusion | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous Atypical, Two, Focal | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Hyperplasia, Squamous Atypical, Three, Focal | | | | | X | | | | | | X | | | | | | | | | | | | | | |
| Hyperplasia, Squamous Atypical, Four, Focal | | | | | | X | | | | | | | X | | | | | | | | | | | | |
| Hyperplasia, Squamous Atypical, Five, Focal | | | | | | | | X | | | | | | X | | | | | | | | | | | |
| Hyperplasia, Squamous Atypical, Greater Than Five, Focal | X | X | X | X | | | X | | X | X | | X | | X | X | X | X | X | X | X | | X | X | | |
| Hyperplasia, Squamous | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 2 | 4 | 4 | 2 | 4 | 4 | | 4 | 2 | 3 |
| Dermis, Inflammation, Chronic Active | 2 | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 1 | 1 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 1 | 2 | 1 | 2 |
| Epidermis, Inflammation, Suppurative | | | | | | | | 4 | 2 | 2 | | 3 | | 1 | | | 1 | 2 | | | 1 | | 2 | | |
| Epidermis, Necrosis | 2 | 1 | | | 3 | 3 | | 4 | 2 | 2 | | 3 | 2 | 2 | | | 2 | 3 | | 1 | 2 | | 2 | | |
| Epidermis, Ulcer | | | | 4 | | | | 2 | 2 | | 4 | | | | | | 4 | | | | | 2 | | | |

MUSCULOSKELETAL SYSTEM

NONE

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| DAY ON TEST | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | | |
| | 6 | 0 | 6 | 6 | 0 | 6 | 5 | 9 | 2 | 9 | 9 | 8 | 7 | 8 | 8 | 7 | 9 | 9 | 1 | 8 | 8 | 8 | 7 | 2 | 7 | |
| | 3 | 4 | 3 | 4 | 4 | 7 | 6 | 7 | 1 | 7 | 7 | 5 | 8 | 5 | 5 | 8 | 0 | 0 | 3 | 4 | 3 | 8 | 1 | 2 | 6 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 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 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | | |
| .5% RP 13.7SSLM | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | |

males
(cont...)

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
 Page 54

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | |
| | 0 | 0 | 0 | 7 | 1 | 9 | 0 | 9 | 9 | 9 | 7 | |
| | 0 | 6 | 0 | 7 | 5 | 7 | 8 | 3 | 1 | 3 | 8 | |
| | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | |
| .5% RP 13.7SSLM | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | * TOTALS |

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Skin, Control | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Cyst Epithelial Inclusion | | X | | | X | | | | | | | 2 |
| Hyperplasia, Squamous | | | | | | | 2 | | | | | 2 1.5 |
| Inflammation, Suppurative | | | | | | | | | 4 | | | 1 4.0 |

* .. 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

| DAY ON TEST | 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 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 0 | 0 | 7 | 1 | 9 | 0 | 9 | 9 | 9 | 9 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 0 | 6 | 0 | 7 | 5 | 7 | 8 | 3 | 1 | 3 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| .5% RP 13.7SSLM | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
| Dermis, Inflammation, Chronic Active | 2 | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |
| Epidermis, Ulcer | | | | | | | | | | | 4 | | | | | | | | | | | | | | 1 4.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 36 | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | 2 4.0 | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Hyperplasia, Squamous Atypical, Two, Focal | | | | | | | | | | | X | | | | | | | | | | | | | 2 | |
| Hyperplasia, Squamous Atypical, Three, Focal | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Hyperplasia, Squamous Atypical, Four, Focal | | | | | | | | | | | | X | | | | | | | | | | | | | 3 |
| Hyperplasia, Squamous Atypical, Five, Focal | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Hyperplasia, Squamous Atypical, Greater Than Five, Focal | X | X | X | X | X | | X | X | X | | X | | | | | | | | | | | | | 26 | |
| Hyperplasia, Squamous | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 35 3.1 | |
| Dermis, Inflammation, Chronic Active | | 1 | | 2 | 2 | 2 | | | | | | | 2 | 2 | 2 | | | | | | | | | 32 1.9 | |
| Epidermis, Inflammation, Suppurative | | | | | | | | | | | | | 1 | 1 | 2 | | | | | | | | | 14 1.9 | |
| Epidermis, Necrosis | | | 2 | 2 | 2 | 1 | 2 | | | | | | | | | | | | | | | | | 20 2.2 | |
| Epidermis, Ulcer | | | | | | 2 | | | | | 1 | 2 | 2 | | | | | | | | | | | 10 2.5 | |

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | |
| | 0 | 0 | 0 | 7 | 1 | 9 | 0 | 9 | 9 | 9 | 7 | |
| | 0 | 6 | 0 | 7 | 5 | 7 | 8 | 3 | 1 | 3 | 8 | |
| | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | |
| .5% RP 13.7SSLM | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | * TOTALS |

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

l .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| DAY ON TEST | 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 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | 2 | 5 | 2 | 7 | 2 | 0 | 1 | 2 | 2 | 4 | 4 | 9 | 2 | 4 | 4 | 4 | 0 | 9 | 4 | 3 | 2 | 3 | 4 | 0 | 2 | | |
| | 0 | 0 | 8 | 1 | 8 | 4 | 3 | 1 | 9 | 3 | 8 | 7 | 2 | 1 | 8 | 1 | 6 | 9 | 1 | 4 | 9 | 4 | 1 | 7 | 7 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 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 | | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| ANIMAL ID | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| NOCREAMM20.55SSL | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |

males (cont...)

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin, Control | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Cyst Epithelial Inclusion | | | | | | X | | | | | X | | | | | | | | | | | | | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | 2 | | | | | | | | | | 2 | | |

* .. 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

TDMS No. 20117 - 01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 06/29/2009

Test Type: 1-YEAR

All-trans-retinyl palmitate

Time Report Requested: 16:29:37

Route: SKIN APPLICATION

CAS Number: 79-81-2

First Dose M/F: 06/22/03 / NA

Species/Strain: MICE/SKH-1/NCTR

Lab: NCTR

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 2 | 5 | 2 | 7 | 2 | 0 | 1 | 2 | 2 | 4 | 4 | 9 | 2 | 4 | 4 | 4 | 0 | 9 | 4 | 3 | 2 | 3 | 4 | 0 | 2 |
| | 0 | 0 | 8 | 1 | 8 | 4 | 3 | 1 | 9 | 3 | 8 | 7 | 2 | 1 | 8 | 1 | 6 | 9 | 1 | 4 | 9 | 4 | 1 | 7 | 7 |
| SKH-1 HAIRLESS MICE (NCTR) | 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 |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| ANIMAL ID | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| NOCREAMM20.55SSL | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

males (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dermis, Inflammation, Chronic Active | | | | | 3 | | | | | | | | | | | 3 | | | 1 | | | 3 | | | | | | | |
| Epidermis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Ulcer | | | | | | | | | | | 2 | | | 2 | | | 1 | | | 4 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Hyperplasia, Squamous Atypical, One, Focal | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous Atypical, Two, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous Atypical, Three, Focal | | | X | | | | | X | | | | | | | X | | | X | | | X | | | | | | | | |
| Hyperplasia, Squamous Atypical, Four, Focal | X | | | | | X | | | | | | | | | | | X | | | | | | | | | | | | |
| Hyperplasia, Squamous Atypical, Five, Focal | | | | | | | | | X | X | | | X | | | | | | | | | | | X | | | | | |
| Hyperplasia, Squamous Atypical, Greater Than Five, Focal | | | X | | | X | | | | | X | | | X | | | X | X | | | | | | | | | | | |
| Hyperplasia, Squamous Dermis, Inflammation, Chronic Active | 2 | 1 | | | 3 | 1 | 2 | 2 | 1 | | | 3 | | | 1 | | | 1 | | | 2 | 1 | | | 2 | | | | |
| Epidermis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Necrosis | | | | | 1 | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Epidermis, Ulcer | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| Sebaceous Gland, Hyperplasia | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM
NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
x .. Lesion present
l .. 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
Page 59

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| DAY ON TEST | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | 2 | 5 | 2 | 7 | 2 | 0 | 1 | 2 | 2 | 4 | 4 | 9 | 2 | 4 | 4 | 4 | 0 | 9 | 4 | 3 | 2 | 3 | 4 | 0 | | |
| | 0 | 0 | 8 | 1 | 8 | 4 | 3 | 1 | 9 | 3 | 8 | 7 | 2 | 1 | 8 | 1 | 6 | 9 | 1 | 4 | 9 | 4 | 1 | 7 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| ANIMAL ID | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| NOCREAMM20.55SSL | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | | |

males (cont...)

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
 Page 60

| | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | |
| | 3 | 0 | 0 | 3 | 9 | 1 | 1 | 7 | 0 | 9 | 0 | |
| | 4 | 8 | 0 | 4 | 2 | 5 | 5 | 0 | 1 | 3 | 1 | |
| | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| ANIMAL ID | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| NOCREAMM20.55SSL | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | * TOTALS |

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|-------|
| Skin, Control | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Abscess | | | | | | | | | | | | 1 4.0 |
| Cyst Epithelial Inclusion | | | | | | | | | | | | 2 |
| Hyperplasia, Squamous | | | | | | | | | | | | 2 2.0 |

* .. 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

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|-----|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | |
| | 3 | 0 | 0 | 3 | 9 | 1 | 1 | 7 | 0 | 9 | 0 | |
| | 4 | 8 | 0 | 4 | 2 | 5 | 5 | 0 | 1 | 3 | 1 | |
| <hr/> | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| ANIMAL ID | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| NOCREAMM20.55SSL | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | | | | | | | | | | | | * TOTALS |
| Infiltration Cellular, Lymphocyte | 3 | | | | | | | | | | | 1 3.0 |
| Dermis, Inflammation, Chronic Active | | | | | | | | | | | | 4 2.5 |
| Epidermis, Inflammation, Suppurative | | | | | | | | | | | | 2 3.0 |
| Epidermis, Necrosis | | | | | | | | | | | | 1 2.0 |
| Epidermis, Ulcer | | | | | | | | | | | | 3 2.3 |
| <hr/> | | | | | | | | | | | | |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Hyperplasia, Squamous Atypical, One, Focal | | | | | | | | | | | | 2 |
| Hyperplasia, Squamous Atypical, Two, Focal | X | | | | | | | | | | | 3 |
| Hyperplasia, Squamous Atypical, Three, Focal | X | | | | | | | | | | | 8 |
| Hyperplasia, Squamous Atypical, Four, Focal | X | | | | | | | | | | | 4 |
| Hyperplasia, Squamous Atypical, Five, Focal | X | | | | | | | | | | | 4 |
| Hyperplasia, Squamous Atypical, Greater Than Five, Focal | X X | | | | | | | | | | | 9 |
| Hyperplasia, Squamous | 1 | | 2 | | 1 | | | 1 | 2 | | | 18 1.6 |
| Dermis, Inflammation, Chronic Active | | | | | | | | | | | | 8 1.6 |
| Epidermis, Inflammation, Suppurative | | | | | | | | | | | | 1 2.0 |
| Epidermis, Necrosis | | | | | | | | | | | | 2 1.0 |
| Epidermis, Ulcer | | | | | | | | | | | | 1 4.0 |
| Sebaceous Gland, Hyperplasia | | | | | | | | | | | | 1 2.0 |

MUSCULOSKELETAL 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

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| DAY ON TEST | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | |
| | 3 | 0 | 0 | 3 | 9 | 1 | 1 | 7 | 0 | 9 | 0 | |
| | 4 | 8 | 0 | 4 | 2 | 5 | 5 | 0 | 1 | 3 | 1 | |
| | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| ANIMAL ID | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| NOCREAMM20.55SSL | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | * TOTALS |

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

*** END OF MALE DATA ***

*** END OF REPORT ***

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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