

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

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	
	3	2	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	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																							X	
Hyperplasia, Squamous																								2
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

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
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 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	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	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	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
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	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
NO CREAMNO SSL-M	4	4	4	4	4	5	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	1
	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

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 + .. Tissue examined microscopically
 x .. Lesion present
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M .. Missing tissue
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 BLANK .. Not examined microscopically

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Page 3

	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

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+ .. Tissue examined microscopically

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M .. Missing tissue

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 Route: SKIN APPLICATION
 Species/Strain: MICE/SKH-1/NCTR

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 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	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
	5	8	1	8	8	8	8	4	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
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	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	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	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	
																									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
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 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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 2) Mild 4) Marked

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	3	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	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	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
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	3
ANIMAL ID	8	8	8	8	8	8	8	8	8	9	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

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1-4 .. Lesion qualified as:

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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	
.....												
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		
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3		
PH 7.0 NO SSL-M	0	0	0	0	1	1	1	1	1	1	1		
	6	7	8	9	0	1	2	3	4	5	6	* TOTALS	
<hr/>													
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												X	4
Hyperplasia, Squamous												2	6 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

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	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	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	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	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 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		
ANIMAL ID	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...)

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								X			
Inflammation, Suppurative																									4

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 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	
DAY ON TEST	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	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	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	
	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	
ANIMAL ID	8	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	1	1	1	1		
NO CREAM6.75SSLM	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

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	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

	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

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

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

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
	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
	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
	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
.....																											
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	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	4	4	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	9	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

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	
	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	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...)

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					2		1	2		3	2	
Dermis, Inflammation, Chronic Active																									
Epidermis, Necrosis																									

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

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	
	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	
	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	
	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	
.....																											
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	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 6.75SSL	2	2	2	2	2	3	3	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	9	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
 Page 18

	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

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		
	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	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 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	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	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																									X
Dermis, Inflammation, Chronic Active																									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	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	7	7	7	7	7	7	7	
	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...)

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	X			
Hyperplasia, Squamous	2	2	2	2	2	2		2	3	1	2	3	1	2	2	2	3	1	2	2	2	2	2	3	2	
Dermis, Inflammation, Chronic Active		2			1			1		1			2		1					2	1	2		3	1	
Epidermis, Inflammation, Suppurative		1																		2		1		1	2	
Epidermis, Necrosis		1						1	2				2							1		2		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
 Page 23

	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	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	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	
	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	
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	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

	0	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST	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
<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
.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		
<hr/>													
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

Page 26

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
	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

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	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	2	males (cont...)
	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	

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

| 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 | 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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous Atypical, Three, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous Atypical, Four, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| 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 | 3 | | 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

| 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 | |
|-----------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | |
| DAY ON TEST | | 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 |
| DAY ON TEST | | 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 | |
| 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 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 | |
| ANIMAL ID | | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| ANIMAL ID | | 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...)

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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| | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 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 |
| 3 | 0 | 1 | 5 | 4 | 1 | 2 | 3 | 3 | 3 | 9 |
| 4 | 7 | 5 | 5 | 2 | 5 | 7 | 5 | 5 | 5 | 9 |

| SKH-1 HAIRLESS MICE (NCTR)
MICE MALE
ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 2 | 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

| | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|--------|
| 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
 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 | 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)
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 | 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 |
| | 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 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 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 | 5 | 5 | 5 | 5 | 5 | |
| | 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 | | | | | | | X | | | | | | | | | | | | |
| Hyperplasia, Squamous Atypical, One, Focal | | | | | | | | | X | | | | | | | | | | | X | | | | | |
| Hyperplasia, Squamous Atypical, Two, Focal | | | | | | X | | 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 |
| Hyperplasia, Squamous Atypical, Greater Than Five, Focal | 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 | | | | 1 | | | | | | | | | | | | 1 | | | | | |
| 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 | 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 | 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 | |
| | 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 | 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 | 5 | |

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

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 | |
| 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

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

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
 Page 40
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|-----|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR)
MICE MALE
ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PH 7.0 13.7SSLM | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous Keratin Cyst | 3 1 1 3 1 2 4 X 1 4 2 2 2 1 3 2 2 1 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dermis, Inflammation, Chronic Active | 2 2 1 2 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Inflammation, Suppurative | 1 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Necrosis | 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Ulcer | 2 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sebaceous Gland, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

males (cont...)

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
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 | |
| 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 |
| <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 |
| PH 7.0 13.7SSLM | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |
| | | | | | | | | | | | * TOTALS |

| | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|--------------|---------------|
| Epidermis, Inflammation, Suppurative | | | | | | | | | | | 2 3.5 | |
| Epidermis, Ulcer | | | | | | | | | | | 2 3.5 | |
| <hr/> | | | | | | | | | | | | |
| 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

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 | 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)
MICE MALE

ANIMAL ID

PH 7.0 13.7SSLM

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 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

| 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...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | 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 |
| Hyperplasia, Squamous Dermis, Inflammation, Chronic Active Epidermis, Inflammation, Suppurative Epidermis, Necrosis Epidermis, Ulcer | 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 |
| Sebacous Gland, Hyperplasia | 1 | 2 | 2 | | 2 | | 1 | | 1 | 4 | 1 | | 2 | | 3 | 2 | 2 | 3 | 1 | 1 | 2 | 1 | | | 2 | |
| | 1 | 1 | 2 | | 3 | | | | | 2 | | | | | 2 | 2 | 2 | | | | 1 | | | | 1 | |
| | | | 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
 Page 47

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 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)
MICE MALE**

ANIMAL ID

.1% RP 13.7SSLM

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 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

| 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 | 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 | |
| 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 | 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...)

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 | |
| 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
 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 | |
| | 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)
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 | |
| | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 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

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 |

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

Page 55

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 | | |
| <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 | | |
| .5% RP 13.7SSLM | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | | |
| | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | | * TOTALS |
| <hr/> | | | | | | | | | | | | | |
| Dermis, Inflammation, Chronic Active | | | | | | | 2 | | | | | | 2 2.0 |
| Epidermis, Ulcer | | | | | | | | | 4 | | | | 1 4.0 |
| <hr/> | | | | | | | | | | | | | |
| 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 | 3 | | 35 3.1 |
| Dermis, Inflammation, Chronic Active | | 1 | | 2 | 2 | 2 | | | 2 | 2 | 2 | | 32 1.9 |
| Epidermis, Inflammation, Suppurative | | | | | | 2 | | | 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

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 | 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 | 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 |
| | 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
 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 | |
| | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 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 | 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 | |
| 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 | 9 | |
| NOCREAMM20.55SSL | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 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 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

| | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| 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 |

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