

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

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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	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	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	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	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	
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	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																										
Hyperplasia, Squamous																										
Epidermis, 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
	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	
	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...)

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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TDMS No. 20117 - 01
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 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	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
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	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
	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	
	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	
.....												
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
.....													
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
 x .. Lesion present
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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	0
	2	2	3	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	6	8
	3	9	8	8	8	8	2	0	8	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	3	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	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
 + .. 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	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	
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	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	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...)

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																			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
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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 11

	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		
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	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	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
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 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
 Page 14

	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

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
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
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
	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

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		
	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)

MICE MALE

PH 7.0 6.75SSLM

ANIMAL ID

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	
	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	
	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	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

Dermis, Inflammation, Chronic Active
 Epidermis, Inflammation, Suppurative
 Epidermis, Necrosis

4

Skin, Site Of Application

+ + + + + + + + + + + + + + + + + + + + + + + +

Abscess

4

Cyst Epithelial Inclusion

X

X

X

X

Hyperplasia, Squamous Atypical, One, Focal

X

Hyperplasia, Squamous Atypical, Two, Focal

X

X

Hyperplasia, Squamous Atypical, Three, Focal

X

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

Hyperplasia, Squamous

1 1 2 2 2

2 3 2 2 2 1

2 1 2 3 2

Dermis, Inflammation, Chronic Active

2 2 1 1

2 2 3 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

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 | |
| | 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 6.75SSLM | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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...)

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 | 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 | | |
| | | | | | | | | | | | | | |
| 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 |
| | | | | | | | | | | | | | |
| 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

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

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 | 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 |
| 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 |
| Epidermis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 Dermis, Inflammation, Chronic Active | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 2 |
| Epidermis, Inflammation, Suppurative | | | | | 1 | | | 1 | | 1 | | | | | | | | | | | | | | | |
| Epidermis, Necrosis | | 1 | | | | | | | | 1 | 2 | | | 2 | | | | | | | | 1 | 2 | | 2 |
| Epidermis, Ulcer | | | | | | | | | | | | 3 | | 2 | | | | | | | | 2 | | | 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
 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 | | | |
| 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 | |
| .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...)

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 | 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 | 1 | 2 | 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 | |
|------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| 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 |
| | 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 |
| | 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 |
| | 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

Page 28

| 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 | 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...)

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

Page 29

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | 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 | 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 |
| .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 | 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 | 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...)

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 | |
| | | | | | | | | | | | |
| 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

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

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

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 | |
| 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 | | |
| | | | | | | | | | | | | | |
| 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 |
| | | | | | | | | | | | | | |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | | 36 |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | 3 |
| Hyperplasia, Squamous Atypical, One, Focal | | | | | | | | | | | X | | 3 |
| Hyperplasia, Squamous Atypical, Two, Focal | | | X | | | | | | | | | | 6 |
| Hyperplasia, Squamous Atypical, Three, Focal | | | | | | | X | | | | | | 5 |
| Hyperplasia, Squamous Atypical, Four, Focal | | | | | X | | | | | | | | 5 |
| Hyperplasia, Squamous Atypical, Five, Focal | | X | | | | | | | | | | | 3 |
| Hyperplasia, Squamous Atypical, Greater Than Five, Focal | | | | X | X | | X | X | X | | | | 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 | | | | | | | | | | | | 4 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------------------------------|---|--|-----|--|-----|--|-----|--|-----|--|-----|-----|-----|---|-----|---|-----|---|-----|---|-----|---|-----|--|--|--|--|--|--|--|--|--|--|--|
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR)
MICE MALE
ANIMAL ID | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | 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 X | | | | | | | | | | | |
| Hyperplasia, Squamous Keratin Cyst | 3 | | 1 | | 1 | | 3 | | 1 | | 2 | | 4 | | 1 | | 4 | | 2 | | 2 | | 1 | | | | | | | | | | | |
| Dermis, Inflammation, Chronic Active | 2 | | | | | | | | | | | 1 | | 2 | | 4 | | | | | | 2 | | | | | | | | | | | | |
| Epidermis, Inflammation, Suppurative | | | | | | | | | | | | 1 | | | | | | | | 1 | | | | | | | | | | | | | | |
| Epidermis, Necrosis | | | | | | | | | | | | 2 | | 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

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 |

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

Page 44

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 | 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 | 3 |
| 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
 Page 47

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)
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 |
| | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| .1% RP 13.7SSLM | 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

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

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 | |
| .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 |
| 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 | 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

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 | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | 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)
MICE MALE
ANIMAL ID
NOCREAMM20.55SSL | 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 |
| | 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 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | |
| NOCREAMM20.55SSL | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| ANIMAL ID | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 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 | | | | | | | | | | X | | 2 |
| Hyperplasia, Squamous Atypical, Two, Focal | | | | | | X | | | | | | 3 |
| Hyperplasia, Squamous Atypical, Three, Focal | | | | | X | | | X | | X | | 8 |
| Hyperplasia, Squamous Atypical, Four, Focal | X | | | | | | | | | | | 4 |
| Hyperplasia, Squamous Atypical, Five, Focal | | | | | | | | | | | | 4 |
| Hyperplasia, Squamous Atypical, Greater Than Five, Focal | | | X | X | | | X | | | | | 9 |
| Hyperplasia, Squamous | 1 | | | 2 | | 1 | | | 1 | 2 | | 18 1.6 |
| Dermis, Inflammation, Chronic Active | | | | | | | | | | 1 | | 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

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 | 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