

**TDMS No.** 20117 - 02

**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:** 16:32:02

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

**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:** Female

**TDMSE Version:** 2.1.0

TDMS No. 20117 - 02  
 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: 16:32:02  
 First Dose M/F: NA / 06/22/03  
 Lab: NCTR

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	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	6
	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
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	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	6	6
<b>NO CREAMNO SSL-F</b>	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
<b>ANIMAL ID</b>	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	6	6
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5			

**females (cont...)**

**ALIMENTARY SYSTEM**  
 NONE

**CARDIOVASCULAR SYSTEM**  
 NONE

**ENDOCRINE SYSTEM**  
 NONE

**GENERAL BODY SYSTEM**  
 NONE

**GENITAL SYSTEM**  
 NONE

**HEMATOPOIETIC SYSTEM**  
 NONE

**INTEGUMENTARY SYSTEM**

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

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	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
<b>NO CREAMNO SSL-F</b>	5	5	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	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

females (cont...)

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

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
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 2) Mild 4) Marked  
 Page 3

	0	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST	3	3	3	3	3	3	3	3	3	3	3	
	6	6	6	6	5	6	6	6	6	6	6	
	7	7	7	7	4	7	7	7	7	7	7	
.....												
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	6	6	6	6	6	6	6	6	6	6	6	
	5	5	5	5	5	5	5	5	5	5	5	
ANIMAL ID	8	8	8	8	9	9	9	9	9	9	9	
<b>NO CREAMNO SSL-F</b>	6	7	8	9	0	1	2	3	4	5	6	<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	<b>36</b>
Abscess									3			<b>1 3.0</b>
Cyst Epithelial Inclusion			X							X		<b>2</b>
Hyperplasia, Squamous												<b>1 2.0</b>

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	3	
	6	6	6	6	5	6	6	6	6	6	6	
	7	7	7	7	4	7	7	7	7	7	7	
<hr/>												
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	6	6	6	6	6	6	6	6	6	6	6	
ANIMAL ID	5	5	5	5	5	5	5	5	5	5	5	
	8	8	8	8	9	9	9	9	9	9	9	
<b>NO CREAMNO SSL-F</b>	6	7	8	9	0	1	2	3	4	5	6	
												<b>* TOTALS</b>
Dermis, Inflammation, Chronic Active												<b>3 3.0</b>
Epidermis, Ulcer												<b>1 3.0</b>
<hr/>												
Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	<b>36</b>
Abscess												<b>1 4.0</b>
Cyst, Multiple												<b>1</b>
Cyst Epithelial Inclusion												<b>2</b>
Hyperplasia, Squamous												<b>1 1.0</b>
Dermis, Inflammation, Chronic Active												<b>2 1.5</b>
<hr/>												
<b>MUSCULOSKELETAL SYSTEM</b>												
NONE												
<hr/>												
<b>NERVOUS SYSTEM</b>												
NONE												
<hr/>												
<b>RESPIRATORY SYSTEM</b>												
NONE												
<hr/>												
<b>SPECIAL SENSES SYSTEM</b>												
NONE												
<hr/>												
<b>URINARY SYSTEM</b>												
NONE												

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

females  
(cont...)

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion	X																							X
Ulcer																								
Dermis, Inflammation, Chronic Active																								

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	6	6	6	6	6	6	7	6	6	6	6	4	6	6	6	6	6	2	6	4	2	6	6	6	6	6
	7	7	7	7	7	7	0	7	7	7	7	8	7	7	7	7	7	7	8	0	7	7	7	7	7	7
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	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
<b>PH 7.0 NO SSL-F</b>	5	5	5	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	9	9	9	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	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	1

females (cont...)

Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Abscess																											
Hyperplasia, Squamous Atypical, Two, Focal																											
Hyperplasia, Squamous Dermis, Inflammation, Chronic Active		1	1				1							1			2										

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
x .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically  
1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	2	3	3	3	3	3	3	
	6	6	6	6	7	6	4	3	6	6	6	
	7	7	7	7	0	7	9	4	7	7	7	
.....												
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0	
MICE FEMALE	6	6	6	6	6	6	6	6	6	6	6	
ANIMAL ID	6	6	6	6	6	6	6	6	6	6	6	
	2	2	2	2	2	2	2	2	3	3	3	
PH 7.0 NO SSL-F	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
Cyst Epithelial Inclusion						X					X	4
Ulcer											3	1 3.0
Dermis, Inflammation, Chronic Active											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



	0	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST	3	3	3	3	2	3	3	3	3	3	3	
	6	6	6	6	7	6	4	3	6	6	6	
	7	7	7	7	0	7	9	4	7	7	7	
.....												
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	6	6	6	6	6	6	6	6	6	6	6	
	6	6	6	6	6	6	6	6	6	6	6	
ANIMAL ID	2	2	2	2	2	2	2	2	3	3	3	
<b>PH 7.0 NO SSL-F</b>	2	3	4	5	6	7	8	9	0	1	2	
												<b>* TOTALS</b>

Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	<b>36</b>
Abscess					4							<b>1 4.0</b>
Hyperplasia, Squamous Atypical, Two, Focal												<b>1</b>
Hyperplasia, Squamous							1			1		<b>7 1.1</b>
Dermis, Inflammation, Chronic Active							2			1		<b>2 1.5</b>

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

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

+ .. Tissue examined microscopically

x .. Lesion present

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	0	
DAY ON TEST	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		
	6	6	6	3	6	6	6	6	6	6	6	6	6	6	2	6	6	6	6	6	6	5	2	6			
	7	7	7	4	7	7	7	7	7	7	7	7	7	7	0	7	7	7	7	7	7	6	6	7			
.....																											
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	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	
	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	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2		
<b>NO CREAM6.75SSLF</b>	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		

females  
(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, Chronic Active																									

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

DAY ON TEST	Animals																								females (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		
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		
6	6	6	3	6	6	6	6	6	6	6	6	6	6	2	6	6	6	6	6	6	6	5	2	6		
7	7	7	4	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	7		
<hr/>																										
<b>SKH-1 HAIRLESS MICE (NCTR)</b> <b>MICE FEMALE</b>	Animals																								females (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		
<b>NO CREAM6.75SSLF</b>	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
	7	7	7	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	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2		
	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	

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

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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
	6	6	6	3	6	6	6	6	6	6	6	6	6	6	2	6	6	6	6	6	6	5	2	6	
	7	7	7	4	7	7	7	7	7	7	7	7	7	7	0	7	7	7	7	7	7	6	6	7	
.....																									
SKH-1 HAIRLESS MICE (NCTR) MICE FEMALE	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
	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 NO CREAM6.75SSLF	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
	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
	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

females  
(cont...)

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	
	3	3	3	3	3	2	2	3	3	3	3	
	6	6	6	6	6	9	6	6	6	6	6	
	7	7	7	7	7	9	0	7	7	7	7	
.....												
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0	
MICE FEMALE	6	6	6	6	6	6	6	6	6	6	6	
	7	7	7	7	7	7	7	7	7	7	7	
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	4	
NO CREAM6.75SSLF	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												1 4.0
Cyst Epithelial Inclusion		X			X							4
Dermis, Inflammation, Chronic Active								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
	3	3	3	3	3	2	2	3	3	3	3
	6	6	6	6	6	9	6	6	6	6	6
	7	7	7	7	7	9	0	7	7	7	7
<hr/>											
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	6	6	6	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7	7	7	7
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	4
<b>NO CREAM6.75SSLF</b>	0	1	2	3	4	5	6	7	8	9	0
											<b>* TOTALS</b>

Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	<b>36</b>
Cyst Epithelial Inclusion				X				X				<b>4</b>
Hyperplasia, Squamous Atypical, One, Focal		X	X	X					X	X		<b>11</b>
Hyperplasia, Squamous Atypical, Two, Focal								X				<b>1</b>
Hyperplasia, Squamous Atypical, Three, Focal												<b>2</b>
Hyperplasia, Squamous Atypical, Four, Focal												<b>1</b>
Hyperplasia, Squamous Atypical, Five, Focal												<b>1</b>
Hyperplasia, Squamous Dermis, Inflammation, Chronic Active			1	1								<b>11 1.3</b>
												<b>1 3.0</b>

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES 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	3	3	3	3	2	2	3	3	3	3	
	6	6	6	6	6	9	6	6	6	6	6	
	7	7	7	7	7	9	0	7	7	7	7	
.....												
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	6	6	6	6	6	6	6	6	6	6	6	
	7	7	7	7	7	7	7	7	7	7	7	
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	4	
<b>NO CREAM6.75SSLF</b>	0	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

**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																								
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
6	3	6	6	6	3	3	6	3	6	6	6	6	6	6	2	6	6	9	6	6	6	6	6	6	
7	4	7	7	7	4	4	7	4	7	7	7	7	7	7	7	7	8	7	7	7	7	7	7	7	
.....																									
SKH-1 HAIRLESS MICE (NCTR) MICE FEMALE	0																								
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
ANIMAL ID	7	7	7	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	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	
PH 7.0 6.75SSLF	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

females  
(cont...)

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion	X			X		X			X			X						X						
Hyperplasia, Squamous												4												
Dermis, Inflammation, Chronic Active																								

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3
	6	3	6	6	6	3	3	6	3	6	6	6	6	6	2	6	6	9	6	6	6	6	6	6	
	7	4	7	7	7	4	4	7	4	7	7	7	7	7	7	7	7	8	7	7	7	7	7	7	
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
<b>PH 7.0 6.75SSLF</b>	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
<b>ANIMAL ID</b>	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females (cont...)

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

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

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

females (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	2	2	3	2	2	3	3	3	3	3	3	
	7	3	4	2	1	6	6	6	0	6	6	
	2	5	6	8	4	7	7	7	6	7	7	
.....												
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	6	6	6	6	6	6	6	6	6	6	6	
	7	7	7	7	7	7	7	7	7	7	7	
ANIMAL ID	6	6	6	6	7	7	7	7	7	7	7	
<b>PH 7.0 6.75SSLF</b>	6	7	8	9	0	1	2	3	4	5	6	<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	<b>36</b>
Cyst Epithelial Inclusion												<b>6</b>
Hyperplasia, Squamous												<b>1 4.0</b>
Dermis, Inflammation, Chronic Active								3				<b>1 3.0</b>

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0
	2	2	3	2	2	3	3	3	3	3	3
	7	3	4	2	1	6	6	6	0	6	6
	2	5	6	8	4	7	7	7	6	7	7
<hr/>											
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	6	6	6	6	6	6	6	6	6	6	6
ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7
<b>PH 7.0 6.75SSLF</b>	6	6	6	6	7	7	7	7	7	7	7
	6	7	8	9	0	1	2	3	4	5	6
											<b>* TOTALS</b>

Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	<b>36</b>
Abscess								3				<b>1 3.0</b>
Cyst Epithelial Inclusion			X	X			X					<b>5</b>
Hyperplasia, Squamous Atypical, One, Focal		X					X					<b>6</b>
Hyperplasia, Squamous Atypical, Two, Focal												<b>5</b>
Hyperplasia, Squamous Atypical, Three, Focal										X		<b>6</b>
Hyperplasia, Squamous Atypical, Four, Focal							X					<b>3</b>
Hyperplasia, Squamous Atypical, Five, Focal												<b>2</b>
Hyperplasia, Squamous Atypical, Greater Than Five, Focal	X		X					X				<b>5</b>
Hyperplasia, Basal Cell												<b>1 2.0</b>
Hyperplasia, Squamous	3	2		3	3		3	1	1	2	1	<b>24 1.8</b>
Dermis, Inflammation, Chronic Active	2			1	2		4	1	1		1	<b>15 1.7</b>
Epidermis, Inflammation, Suppurative					1							<b>1 1.0</b>
Epidermis, Necrosis									1			<b>2 1.0</b>
Epidermis, Ulcer					1							<b>1 1.0</b>

**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

Page 20

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	3	2	2	3	3	3	3	3	3	
	7	3	4	2	1	6	6	6	0	6	6	
	2	5	6	8	4	7	7	7	6	7	7	
.....												
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	6	6	6	6	6	6	6	6	6	6	6	
	7	7	7	7	7	7	7	7	7	7	7	
ANIMAL ID	6	6	6	6	7	7	7	7	7	7	7	
<b>PH 7.0 6.75SSLF</b>	6	7	8	9	0	1	2	3	4	5	6	<b>* TOTALS</b>

**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	2	1	3	2	3	3	3	2	3	2	3	2	2	2	3	2	2	3	3	3	3	2	2	2	2		
	8	6	4	8	6	5	6	5	4	8	4	9	7	7	8	2	4	9	1	1	6	1	4	6	5		
	3	7	8	3	2	5	7	6	1	4	8	9	0	7	5	0	2	2	3	3	7	3	2	3	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	0	
MICE FEMALE	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	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	
ANIMAL ID	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	0	
.1% RP 6.75SSLF	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	1	

females  
(cont...)

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion					X																				X	
Hyperplasia, Squamous Atypical, Focal																										

\* .. 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 22

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	1	3	2	3	3	3	2	3	2	3	2	2	2	3	2	2	3	3	3	3	2	2	2	
	8	6	4	8	6	5	6	5	4	8	4	9	7	7	8	2	4	9	1	1	6	1	4	6	5
	3	7	8	3	2	5	7	6	1	4	8	9	0	7	5	0	2	2	3	3	7	3	2	3	6
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	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
<b>.1% RP 6.75SSLF</b>	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
<b>ANIMAL ID</b>	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	0
	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1

females (cont...)

Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Cyst Epithelial Inclusion						X																X				
Hyperplasia, Squamous Atypical, One, Focal																			X							
Hyperplasia, Squamous Atypical, Two, Focal																					X					
Hyperplasia, Squamous Atypical, Three, Focal							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			X		X			X	X						X	X				
Hyperplasia, Basal Cell																					3					
Hyperplasia, Squamous	3	2	2	3	2	2	2	2		2	2	2	2	3	2	2	2	2	2	1	1	2		2	2	2
Dermis, Inflammation, Chronic Active	2		1		2	1	2	2		2	2	2	1	2	2		1	2		1	2		1	2	2	
Epidermis, Inflammation, Suppurative																										
Epidermis, Necrosis					2								1									2				
Epidermis, Ulcer			4																			2				
Sebaceous Gland, Hyperplasia								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  
 Page 23

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	1	3	2	3	3	3	2	3	2	3	2	2	2	2	3	2	2	3	3	3	3	2	2	2		
	8	6	4	8	6	5	6	5	4	8	4	9	7	7	8	2	4	9	1	1	6	1	4	6	5		
	3	7	8	3	2	5	7	6	1	4	8	9	0	7	5	0	2	2	3	3	7	3	2	3	6		
.....																											
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	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	
<b>.1% RP 6.75SSLF</b>	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	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1		

females (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  
Page 24



DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	1	3	3	2	2	3	1	3	
	3	7	5	0	0	2	9	4	6	1	6	
	5	7	6	7	6	7	9	9	7	1	7	
.....												
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0	
MICE FEMALE	6	6	6	6	6	6	6	6	6	6	6	
	8	8	8	8	8	8	8	8	8	8	8	
ANIMAL ID	0	0	0	0	0	0	0	0	1	1	1	
.1% RP 6.75SSLF	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
Cyst Epithelial Inclusion					X							3
Hyperplasia, Squamous Atypical, Focal								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	0	* TOTALS
	2	2	2	1	3	3	2	2	3	1	3	
	3	7	5	0	0	2	9	4	6	1	6	
	5	7	6	7	6	7	9	9	7	1	7	
<hr/>												
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	6	6	6	6	6	6	6	6	6	6	6	
<b>.1% RP 6.75SSLF</b>	8	8	8	8	8	8	8	8	8	8	8	
ANIMAL ID	0	0	0	0	0	0	0	0	1	1	1	
	2	3	4	5	6	7	8	9	0	1	2	
Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	36
Cyst Epithelial Inclusion		X							X			4
Hyperplasia, Squamous Atypical, One, Focal												1
Hyperplasia, Squamous Atypical, Two, Focal	X					X		X				4
Hyperplasia, Squamous Atypical, Three, Focal												3
Hyperplasia, Squamous Atypical, Four, Focal			X						X			6
Hyperplasia, Squamous Atypical, Five, Focal							X					3
Hyperplasia, Squamous Atypical, Greater Than Five, Focal		X			X					X		14
Hyperplasia, Basal Cell												1 3.0
Hyperplasia, Squamous	2	2	3	2		2	2	2	1	2		32 2.0
Dermis, Inflammation, Chronic Active	2	2	3	2	2	2	2	1		4		28 1.9
Epidermis, Inflammation, Suppurative							1			4		2 2.5
Epidermis, Necrosis							2					4 1.8
Epidermis, Ulcer										4		3 3.3
Sebaceous Gland, Hyperplasia												1 3.0

**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	2	2	2	1	3	3	2	2	3	1	3
	3	7	5	0	0	2	9	4	6	1	6
	5	7	6	7	6	7	9	9	7	1	7
.....											
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	6	6	6	6	6	6	6	6	6	6	6
	8	8	8	8	8	8	8	8	8	8	8
ANIMAL ID	0	0	0	0	0	0	0	0	1	1	1
<b>.1% RP 6.75SSLF</b>	2	3	4	5	6	7	8	9	0	1	2
											<b>* TOTALS</b>

**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 - 02  
 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: 16:32:02  
 First Dose M/F: NA / 06/22/03  
 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
DAY ON TEST	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	4	2	5	6	9	6	4	4	6	5	6	4	7	0	4	4	7	6	8	4	5	6	7	7
	7	7	6	9	1	7	0	9	2	6	2	0	0	1	9	9	7	3	3	2	6	3	9	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
SKH-1 HAIRLESS MICE (NCTR)	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
MICE FEMALE	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
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
.5% RP 6.75SSLF	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6

females  
(cont...)

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion																								X
Hyperplasia, Squamous							3				1				1									1

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 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	0	0
	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	4	2	5	6	9	6	4	4	6	5	6	4	7	0	4	4	7	6	8	4	5	6	7	7	6		
	7	7	6	9	1	7	0	9	2	6	2	0	0	1	9	9	7	3	3	2	6	3	9	0	3		
.....																											
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	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	6
	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
ANIMAL ID	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
<b>.5% RP 6.75SSLF</b>	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		

females (cont...)

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

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

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

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

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

Page 29

TDMS No. 20117 - 02

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: 16:32:02

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

Lab: NCTR

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	4	2	5	6	9	6	4	4	6	5	6	4	7	0	4	4	7	6	8	4	5	6	7	7	6	6	6
	7	7	6	9	1	7	0	9	2	6	2	0	0	1	9	9	7	3	3	2	6	3	9	0	3	3	3
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	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	6
<b>.5% RP 6.75SSLF</b>	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
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	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	7	7

**females (cont...)**

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
x .. Lesion present  
l .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically  
1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

Page 30

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	3	2	2	2	2	2	2	
	4	3	5	2	1	6	2	6	3	6	4	
	1	5	6	8	3	5	1	5	4	5	9	
.....												
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0	
MICE FEMALE	6	6	6	6	6	6	6	6	6	6	6	
	8	8	8	8	8	8	8	8	8	8	8	
ANIMAL ID	3	3	4	4	4	4	4	4	4	4	4	
.5% RP 6.75SSLF	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
Cyst Epithelial Inclusion												1
Hyperplasia, Squamous												4 1.5

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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	3	2	2	2	2	2	2	
	4	3	5	2	1	6	2	6	3	6	4	
	1	5	6	8	3	5	1	5	4	5	9	
<hr/>												
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	6	6	6	6	6	6	6	6	6	6	6	
<b>.5% RP 6.75SSLF</b>	8	8	8	8	8	8	8	8	8	8	8	
ANIMAL ID	3	3	4	4	4	4	4	4	4	4	4	
	8	9	0	1	2	3	4	5	6	7	8	<b>* TOTALS</b>
Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	<b>36</b>
Cyst Epithelial Inclusion												<b>1</b>
Hyperplasia, Squamous Atypical, One, Focal				X		X		X	X			<b>8</b>
Hyperplasia, Squamous Atypical, Two, Focal		X									X	<b>3</b>
Hyperplasia, Squamous Atypical, Three, Focal												<b>2</b>
Hyperplasia, Squamous Atypical, Four, Focal												<b>2</b>
Hyperplasia, Squamous Atypical, Five, Focal												<b>3</b>
Hyperplasia, Squamous Atypical, Greater Than Five, Focal	X		X		X		X			X		<b>16</b>
Hyperplasia, Squamous	2	1	3	2	3	3	2	3	2	3	2	<b>36 2.5</b>
Dermis, Inflammation, Chronic Active	2	1	2	3	2	2	2	1	2	2	2	<b>36 2.0</b>
Epidermis, Inflammation, Suppurative			2									<b>7 1.9</b>
Epidermis, Necrosis				2						1		<b>7 1.6</b>
Epidermis, Ulcer			2			2						<b>9 2.6</b>

**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 32

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



TDMS No. 20117 - 02

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: 16:32:02

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

Lab: NCTR

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

SKH-1 HAIRLESS MICE (NCTR)  
MICE FEMALE

ANIMAL ID

.5% RP 6.75SSLF

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

\* 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

Page 33

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAY ON TEST		3	2	2	2	2	3	3	3	2	2	2	2	2	3	3	2	0	3	2	3	2	3	2	3	2	
		1	9	7	9	6	6	3	2	2	8	8	9	6	9	6	0	2	8	7	6	3	1	6	2	5	
		7	9	6	1	9	9	4	0	0	4	4	9	2	2	2	3	0	5	6	7	5	3	3	6	6	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>SKH-1 HAIRLESS MICE (NCTR)</b>		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	
<b>MICE FEMALE</b>		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
	ANIMAL ID	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	8	8	
<b>NO CREAM13.7SSLF</b>		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	

females (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					1																					
Dermis, Inflammation, Chronic Active																										

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 20117 - 02

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: 16:32:02

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

Lab: NCTR

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	2	2	2	2	2	3	3	3	2	2	2	2	2	2	3	3	2	0	3	2	3	2	3	2	3	2	
	1	9	7	9	6	6	3	2	2	8	8	9	6	9	6	0	2	8	7	6	3	1	6	2	5			
	7	9	6	1	9	9	4	0	0	4	4	9	2	2	2	3	0	5	6	7	5	3	3	6	6			
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	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	6	6
	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
ANIMAL ID	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8
<b>NO CREAM13.7SSLF</b>	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			<b>females (cont...)</b>

Epidermis, Inflammation, Suppurative																											4																															
Epidermis, Ulcer																											4																															
-----																																																										
Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																														
Cyst Epithelial Inclusion																											X																															
Hyperplasia, Squamous Atypical, One, Focal	X																									X		X			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		X																																		
Hyperplasia, Squamous	1		3	2		3	1	2	2	1	2	1	1		1	2	3	2		1	1	1	2	1	1	1	1																															
Dermis, Inflammation, Chronic Active			2			4		1	1		1						2					2	2		1																																	
Epidermis, Inflammation, Suppurative						2																																																				
Epidermis, Necrosis						2											1																																									
Epidermis, Ulcer						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

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	2	2	3	3	3	2	2	2	2	2	2	3	3	2	0	3	2	3	2	3	2		
	1	9	7	9	6	6	3	2	2	8	8	9	6	9	6	0	2	8	7	6	3	1	6	2	5		
	7	9	6	1	9	9	4	0	0	4	4	9	2	2	2	3	0	5	6	7	5	3	3	6	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	0	
MICE FEMALE	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	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
NO CREAM13.7SSLF	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	8	
	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		

females (cont...)

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 36

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

<b>SKH-1 HAIRLESS MICE (NCTR)</b> <b>MICE FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9	9
	8	8	8	8	8	8	8	8	9	9	9
<b>NO CREAM13.7SSLF</b>	2	3	4	5	6	7	8	9	0	1	2
	<b>* TOTALS</b>										

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	<b>36</b>
Cyst Epithelial Inclusion											X	<b>1</b>
Hyperplasia, Squamous												<b>1 1.0</b>
Dermis, Inflammation, Chronic Active			4									<b>1 4.0</b>

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	2	2	2	2	2	2	2	2	2	3	2			
	4	5	6	7	8	5	9	4	6	2	6				
	6	6	4	2	9	6	2	1	5	7	5				
.....															
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
ANIMAL ID	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
	8	8	8	8	8	8	8	8	8	9	9	9	9	9	
<b>NO CREAM13.7SSLF</b>	2	3	4	5	6	7	8	9	0	1	2				
														<b>* TOTALS</b>	
Epidermis, Inflammation, Suppurative														<b>1 4.0</b>	
Epidermis, Ulcer	4													<b>2 4.0</b>	
.....															
Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>36</b>
Cyst Epithelial Inclusion	X														<b>2</b>
Hyperplasia, Squamous Atypical, One, Focal															<b>4</b>
Hyperplasia, Squamous Atypical, Two, Focal						X		X							<b>4</b>
Hyperplasia, Squamous Atypical, Three, Focal									X						<b>4</b>
Hyperplasia, Squamous Atypical, Four, Focal	X		X		X										<b>5</b>
Hyperplasia, Squamous Atypical, Five, Focal															<b>3</b>
Hyperplasia, Squamous Atypical, Greater Than Five, Focal		X		X			X			X					<b>13</b>
Hyperplasia, Squamous	1		1	1	1	2	2	1	1						<b>28 1.5</b>
Dermis, Inflammation, Chronic Active			1	1	1										<b>12 1.6</b>
Epidermis, Inflammation, Suppurative															<b>1 2.0</b>
Epidermis, Necrosis															<b>2 1.5</b>
Epidermis, Ulcer															<b>1 3.0</b>

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

**SKH-1 HAIRLESS MICE (NCTR)  
MICE FEMALE**

ANIMAL ID

**NO CREAM13.7SSLF**

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

**\* 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 - 02  
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: 16:32:02  
First Dose M/F: NA / 06/22/03  
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	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	
	2	6	5	6	6	5	4	5	4	7	1	6	3	7	6	7	7	0	6	2	9	6	7	6	7	
	7	3	6	3	1	6	9	6	9	7	9	2	6	0	2	0	0	1	2	0	9	3	0	9	2	
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
<b>PH 7.0 13.7SSLF</b>	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	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	

females  
(cont...)

**ALIMENTARY SYSTEM**  
NONE

**CARDIOVASCULAR SYSTEM**  
NONE

**ENDOCRINE SYSTEM**  
NONE

**GENERAL BODY SYSTEM**  
NONE

**GENITAL SYSTEM**  
NONE

**HEMATOPOIETIC SYSTEM**  
NONE

**INTEGUMENTARY SYSTEM**

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion																							X	X	
Hyperplasia, Squamous Atypical, Focal																									
Hyperplasia, Squamous																									

2

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
x .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically  
1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked



TDMS No. 20117 - 02  
 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: 16:32:02  
 First Dose M/F: NA / 06/22/03  
 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	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	
	2	6	5	6	6	5	4	5	4	7	1	6	3	7	6	7	7	0	6	2	9	6	7	6	7
	7	3	6	3	1	6	9	6	9	7	9	2	6	0	2	0	0	1	2	0	9	3	0	9	2
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
<b>PH 7.0 13.7SSLF</b>	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7

females (cont...)

Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion	X			X			X											X						X
Hyperplasia, Squamous Atypical, One, Focal										X	X			X										X
Hyperplasia, Squamous Atypical, Three, Focal				X		X												X						X
Hyperplasia, Squamous Atypical, Four, Focal							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		
Hyperplasia, Squamous Dermis, Inflammation, Chronic Active	3	1	2	2	2	2	1	3	2	1	2	1	2		3	2	2			1	1	1	3	3
Epidermis, Inflammation, Suppurative	1	2	2	2		2	1	3	1		2		1		4		1							3
Epidermis, Necrosis	1							3					2											
Epidermis, Ulcer								4					2											

**MUSCULOSKELETAL SYSTEM**  
 NONE

**NERVOUS SYSTEM**  
 NONE

**RESPIRATORY SYSTEM**  
 NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 20117 - 02  
 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: 16:32:02  
 First Dose M/F: NA / 06/22/03  
 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	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	
	2	6	5	6	6	5	4	5	4	7	1	6	3	7	6	7	7	0	6	2	9	6	7	6	7	7	
	7	3	6	3	1	6	9	6	9	7	9	2	6	0	2	0	0	1	2	0	9	3	0	9	2	2	
.....																											
SKH-1 HAIRLESS MICE (NCTR) MICE FEMALE	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
ANIMAL ID	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PH 7.0 13.7SSLF	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	7	

females  
(cont...)

**SPECIAL SENSES SYSTEM**  
 NONE

**URINARY SYSTEM**  
 NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 42

	0	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST	2	2	2	2	2	3	3	2	2	3	3	
	7	6	3	5	7	2	3	6	1	0	2	
	2	3	5	6	2	0	2	5	9	6	0	
.....												
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	7	7	7	7	7	7	7	7	7	7	7	
	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	1	1	2	2	2	2	2	2	2	2	2	
<b>PH 7.0 13.7SSLF</b>	8	9	0	1	2	3	4	5	6	7	8	<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	<b>36</b>
Cyst Epithelial Inclusion		X			X							<b>4</b>
Hyperplasia, Squamous Atypical, Focal			X									<b>1</b>
Hyperplasia, Squamous												<b>1 2.0</b>

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	3	3	2	2	3	3
	7	6	3	5	7	2	3	6	1	0	2
	2	3	5	6	2	0	2	5	9	6	0
.....											
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	7	7	7	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	1	1	2	2	2	2	2	2	2	2	2
<b>PH 7.0 13.7SSLF</b>	8	9	0	1	2	3	4	5	6	7	8
											<b>* TOTALS</b>

Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	<b>36</b>
Cyst Epithelial Inclusion				X				X	X	X		<b>9</b>
Hyperplasia, Squamous Atypical, One, Focal											X	<b>5</b>
Hyperplasia, Squamous Atypical, Three, Focal					X							<b>5</b>
Hyperplasia, Squamous Atypical, Four, Focal			X									<b>2</b>
Hyperplasia, Squamous Atypical, Five, Focal												<b>1</b>
Hyperplasia, Squamous Atypical, Greater Than Five, Focal	X	X		X		X		X		X		<b>20</b>
Hyperplasia, Squamous Dermis, Inflammation, Chronic Active	2	3	2	2	2	1	1	2	1	2	2	<b>33 1.9</b>
Epidermis, Inflammation, Suppurative			1	2	2				1	2		<b>18 1.8</b>
Epidermis, Necrosis											1	<b>3 2.0</b>
Epidermis, Ulcer										2		<b>3 1.3</b>
												<b>2 3.0</b>

**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

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

**SKH-1 HAIRLESS MICE (NCTR)  
MICE FEMALE**

ANIMAL ID

**PH 7.0 13.7SSLF**

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

**\* 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	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2
	6	0	2	2	1	4	6	6	4	2	5	5	4	0	5	9	3	5	4	4	1	1	4	2	3
	9	5	2	2	5	7	2	2	3	9	6	6	9	8	5	1	0	5	8	8	5	5	8	9	6
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	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
<b>.1% RP 13.7SSLF</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	5	5
	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

females (cont...)

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion				X																			X		
Dermis, Inflammation, Chronic Active				3																					

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

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

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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2
	6	0	2	2	1	4	6	6	4	2	5	5	4	0	5	9	3	5	4	4	1	1	4	2	3
	9	5	2	2	5	7	2	2	3	9	6	6	9	8	5	1	0	5	8	8	5	5	8	9	6
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	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
<b>.1% RP 13.7SSLF</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	5	5
	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

females (cont...)

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

**MUSCULOSKELETAL SYSTEM**  
NONE

**NERVOUS SYSTEM**  
NONE

**RESPIRATORY SYSTEM**  
NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

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	1	2	2	2	2	2	2	2	2	2		
	6	0	2	2	1	4	6	6	4	2	5	5	4	0	5	9	3	5	4	4	1	1	4	2	3		
	9	5	2	2	5	7	2	2	3	9	6	6	9	8	5	1	0	5	8	8	5	5	8	9	6		
.....																											
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>MICE FEMALE</b>	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		
<b>.1% RP 13.7SSLF</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	5	5		
	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		

females (cont...)

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

Kidney

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 48



DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2
	4	0	4	4	2	2	3	2	2	2	3
	1	8	1	1	2	8	4	1	8	8	4
.....											
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	7	7	7	7	7	7	7	7	7	7	7
<b>.1% RP 13.7SSLF</b>	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	5	5	5	5	5	5	6	6	6	6	6
	4	5	6	7	8	9	0	1	2	3	4
											<b>* TOTALS</b>

**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												2
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	2	2	2	2	2	
	4	0	4	4	2	2	3	2	2	2	3	
	1	8	1	1	2	8	4	1	8	8	4	
<hr/>												
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	7	7	7	7	7	7	7	7	7	7	7	
	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	5	5	5	5	5	5	6	6	6	6	6	
<b>.1% RP 13.7SSLF</b>	4	5	6	7	8	9	0	1	2	3	4	
												<b>* TOTALS</b>
Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	<b>36</b>
Cyst Epithelial Inclusion												<b>1</b>
Hyperplasia, Squamous Atypical, One, Focal	X											<b>1</b>
Hyperplasia, Squamous Atypical, Two, Focal												<b>1</b>
Hyperplasia, Squamous Atypical, Three, Focal			X	X								<b>6</b>
Hyperplasia, Squamous Atypical, Four, Focal												<b>4</b>
Hyperplasia, Squamous Atypical, Five, Focal		X				X		X		X		<b>5</b>
Hyperplasia, Squamous Atypical, Greater Than Five, Focal					X		X	X		X		<b>19</b>
Hyperplasia, Squamous	2	3	2		2	2	2	2		2	2	<b>31 2.5</b>
Dermis, Inflammation, Chronic Active	2	3	2		2	2	1	1		2	2	<b>31 1.9</b>
Epidermis, Inflammation, Suppurative		4										<b>3 3.7</b>
Epidermis, Necrosis		2								2		<b>5 2.0</b>
Epidermis, Ulcer		4										<b>3 3.7</b>

**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 50

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	2	2	2	2	2	
	4	0	4	4	2	2	3	2	2	2	3	
	1	8	1	1	2	8	4	1	8	8	4	
.....												
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	7	7	7	7	7	7	7	7	7	7	7	
	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	5	5	5	5	5	5	6	6	6	6	6	
<b>.1% RP 13.7SSLF</b>	4	5	6	7	8	9	0	1	2	3	4	<b>* TOTALS</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

Kidney

+

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

TDMS No. 20117 - 02  
 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: 16:32:02  
 First Dose M/F: NA / 06/22/03  
 Lab: NCTR

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

---

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
SKH-1 HAIRLESS MICE (NCTR)	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
MICE FEMALE	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
.5% RP 13.7SSLF	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8
	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

females (cont...)

**ALIMENTARY SYSTEM**  
 NONE

**CARDIOVASCULAR SYSTEM**  
 NONE

**ENDOCRINE SYSTEM**  
 NONE

**GENERAL BODY SYSTEM**  
 NONE

**GENITAL SYSTEM**  
 NONE

**HEMATOPOIETIC SYSTEM**  
 NONE

**INTEGUMENTARY SYSTEM**

---

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema																						4			
Hyperplasia, Squamous									1	1												1		1	3
Dermis, Inflammation, Suppurative																						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  
 Page 52  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 20117 - 02

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

Date Report Requested: 06/29/2009

Test Type: 1-YEAR

All-trans-retinyl palmitate

Time Report Requested: 16:32:02

Route: SKIN APPLICATION

CAS Number: 79-81-2

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

Species/Strain: MICE/SKH-1/NCTR

Lab: NCTR

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	2	2	2	2	2	0	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
	2	2	2	2	5	2	3	0	5	1	2	0	4	0	0	1	0	0	0	0	0	2	3	0	3	
	2	2	2	2	0	2	4	3	9	5	2	8	8	8	1	2	1	8	8	1	5	6	5	1	5	
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>MICE FEMALE</b>	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
<b>.5% RP 13.7SSLF</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	<b>females (cont...)</b>	
	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 3  
 Epidermis, Necrosis 2

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

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	0	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	2	2	2	2	5	2	3	0	5	1	2	0	4	0	0	1	0	0	0	0	0	2	3	0	3	
	2	2	2	2	0	2	4	3	9	5	2	8	8	8	1	2	1	8	8	1	5	6	5	1	5	
<b>SKH-1 HAIRLESS MICE (NCTR)</b> <b>MICE FEMALE</b> <b>.5% RP 13.7SSLF</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	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
	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
	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8
	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	

females  
(cont...)

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
x .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically  
1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked  
Page 54

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	
	2	2	1	1	1	2	2	2	2	1	2	
	3	0	1	8	9	0	1	3	0	8	2	
	5	8	5	7	8	1	2	4	1	7	8	
.....												
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0	
MICE FEMALE	7	7	7	7	7	7	7	7	7	7	7	
	0	0	0	0	0	0	0	0	0	0	1	
ANIMAL ID	9	9	9	9	9	9	9	9	9	9	0	
.5% RP 13.7SSLF	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
Edema												1 4.0
Hyperplasia, Squamous										1		6 1.3
Dermis, Inflammation, Suppurative												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	1	1	1	2	2	2	2	1	2
	3	0	1	8	9	0	1	3	0	8	2
	5	8	5	7	8	1	2	4	1	7	8
.....											
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	7	7	7	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0	0	0	1
ANIMAL ID	9	9	9	9	9	9	9	9	9	9	0
<b>.5% RP 13.7SSLF</b>	0	1	2	3	4	5	6	7	8	9	0
											<b>* TOTALS</b>

Dermis, Inflammation, Chronic Active											1	<b>2 2.0</b>			
Epidermis, Necrosis												<b>1 2.0</b>			
.....															
Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	<b>36</b>			
Hyperplasia, Squamous Atypical, One, Focal												<b>3</b>			
Hyperplasia, Squamous Atypical, Two, Focal											X	<b>3</b>			
Hyperplasia, Squamous Atypical, Three, Focal	X												<b>2</b>		
Hyperplasia, Squamous Atypical, Four, Focal											X	X	<b>4</b>		
Hyperplasia, Squamous Atypical, Five, Focal	X												X	X	<b>4</b>
Hyperplasia, Squamous Atypical, Greater Than Five, Focal											X	X	<b>14</b>		
Hyperplasia, Squamous	2	3	2	3	4	3	3	2	3	2	3	<b>35 2.9</b>			
Dermis, Inflammation, Chronic Active	2	3	2	2	3	1	2	2	2	2	2	<b>33 2.4</b>			
Epidermis, Inflammation, Suppurative											2	<b>9 2.3</b>			
Epidermis, Necrosis	2												3	<b>14 2.1</b>	
Epidermis, Ulcer											2	<b>6 3.2</b>			

**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  
 Page 56



TDMS No. 20117 - 02

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: 16:32:02

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

Lab: NCTR

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

SKH-1 HAIRLESS MICE (NCTR)  
MICE FEMALE

ANIMAL ID

.5% RP 13.7SSLF

	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7
	0	0	0	0	0	0	0	0	0	0	1
	9	9	9	9	9	9	9	9	9	9	0
	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

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	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	6	6	2	4	2	1	4	4	2	5	5	4	4	2	3	1	3	1	2	4	4	4	4	0	
	3	6	9	7	9	5	3	0	2	6	6	3	9	3	3	5	6	5	9	2	2	8	2	9	
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
<b>NOCREAMF20.55SSL</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
ANIMAL ID	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	
	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

females (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					X										
Hyperplasia, Squamous																							2	

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

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	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	6	6	2	4	2	1	4	4	2	5	5	4	4	2	3	1	3	1	2	4	4	4	4	0	
	3	6	9	7	9	5	3	0	2	6	6	3	9	3	3	5	6	5	9	2	2	8	2	9	
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
<b>NOCREAMF20.55SSL</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
ANIMAL ID	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	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

females (cont...)

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

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	6	6	2	4	2	1	4	4	2	5	5	4	4	2	3	1	3	1	2	4	4	4	4	0	
	3	6	9	7	9	5	3	0	2	6	6	3	9	3	3	5	6	5	9	2	2	8	2	9	
.....																									
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
<b>ANIMAL ID</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
<b>NOCREAMF20.55SSL</b>	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	
	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

females (cont...)

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 60

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	
	2	2	1	2	2	2	2	2	2	2	2	
	2	4	8	3	3	2	3	2	3	3	2	
	8	1	7	5	5	1	4	8	4	4	8	
.....												
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0	
MICE FEMALE	7	7	7	7	7	7	7	7	7	7	7	
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	
NOCREAMF20.55SSL	3	3	3	3	3	3	4	4	4	4	4	
	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
Abscess												1 4.0
Cyst Epithelial Inclusion		X										4
Hyperplasia, Squamous												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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0
	2	2	1	2	2	2	2	2	2	2	2
	2	4	8	3	3	2	3	2	3	3	2
	8	1	7	5	5	1	4	8	4	4	8
<hr/>											
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0
<b>MICE FEMALE</b>	7	7	7	7	7	7	7	7	7	7	7
<b>ANIMAL ID</b>	2	2	2	2	2	2	2	2	2	2	2
<b>NOCREAMF20.55SSL</b>	3	3	3	3	3	3	4	4	4	4	4
	4	5	6	7	8	9	0	1	2	3	4
											<b>* TOTALS</b>

Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	<b>36</b>		
Abscess													<b>1</b>	<b>3.0</b>
Cyst Epithelial Inclusion				X								<b>2</b>		
Hyperplasia, Squamous Atypical, One, Focal						X	X					<b>4</b>		
Hyperplasia, Squamous Atypical, Two, Focal											X	<b>9</b>		
Hyperplasia, Squamous Atypical, Three, Focal			X						X			<b>7</b>		
Hyperplasia, Squamous Atypical, Four, Focal				X						X		<b>7</b>		
Hyperplasia, Squamous Atypical, Five, Focal					X			X				<b>4</b>		
Hyperplasia, Squamous Atypical, Greater Than Five, Focal	X	X										<b>4</b>		
Hyperplasia, Squamous	2	2		1		2	2	1	1	2	2	<b>28</b>	<b>1.8</b>	
Dermis, Inflammation, Chronic Active	2			1		1	1	1	1	1	1	<b>21</b>	<b>1.9</b>	
Epidermis, Inflammation, Suppurative												<b>3</b>	<b>2.7</b>	
Epidermis, Necrosis												<b>1</b>	<b>2.0</b>	
Epidermis, Ulcer												<b>4</b>	<b>3.5</b>	

**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	2	2	1	2	2	2	2	2	2	2	2	
	2	4	8	3	3	2	3	2	3	3	2	
	8	1	7	5	5	1	4	8	4	4	8	
.....												
<b>SKH-1 HAIRLESS MICE (NCTR)</b>	0	0	0	0	0	0	0	0	0	0	0	
<b>MICE FEMALE</b>	7	7	7	7	7	7	7	7	7	7	7	
	2	2	2	2	2	2	2	2	2	2	2	
ANIMAL ID	3	3	3	3	3	3	4	4	4	4	4	
<b>NOCREAMF20.55SSL</b>	4	5	6	7	8	9	0	1	2	3	4	<b>* TOTALS</b>

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

\*\*\* 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