

**TDMS No.** 20117 - 02

**Test Type:** 1-YEAR

**Route:** SKIN APPLICATION

**Species/Strain:** MICE/SKH-1/NCTR

**P04: NEOPLASMS 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

	0	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	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	
ANIMAL ID	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>NO CREAMNO SSL-F</b>	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	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...)

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skin, Site Of Application	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

	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	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	
	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	
<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	
ANIMAL ID	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>NO CREAMNO SSL-F</b>	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	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...)

Squamous Cell Papilloma, One

X

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                            |   |   |   |   |   |   |   |   |   |   |   |          |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| 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 |          |
| .....                      |   |   |   |   |   |   |   |   |   |   |   |          |
| 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 |          |
|                            | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |          |
| ANIMAL ID                  | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |          |
| NO CREAMNO SSL-F           | 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 |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | 36 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                            |   |   |   |   |   |   |   |   |   |   |   |          |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| 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 |          |
| .....                      |   |   |   |   |   |   |   |   |   |   |   |          |
| 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                  | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |          |
|                            | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |          |
| NO CREAMNO SSL-F           | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | * TOTALS |

Squamous Cell Papilloma, One

1

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

+ + + + + + + + + + +

36

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

TDMS No. 20117 - 02  
 Test Type: 1-YEAR  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/SKH-1/NCTR

**P04: NEOPLASMS 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 | 3 | 3 | 3 | 3 | 3 | 2 | 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 |
|  | 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 |
| SKH-1 HAIRLESS MICE (NCTR)<br>MICE FEMALE<br>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 |
|  | 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 |
|  | 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 |
|  | 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 |
| PH 7.0 NO SSL-F  | 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           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Squamous Cell Papilloma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

| 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 | 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 | 7 | 8 | 0 | 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>ANIMAL ID</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 |
| <b>PH 7.0 NO SSL-F</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 |

females (cont...)

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin, Site Of Application    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Keratoacanthoma, One         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lymphoma Malignant           |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, One |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   | X |   |
| Squamous Cell Papilloma, Two |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

TDMS No. 20117 - 02

Test Type: 1-YEAR

Route: SKIN APPLICATION

Species/Strain: MICE/SKH-1/NCTR

P04: NEOPLASMS 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 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                   | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID                         | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 4 | 6 | 6 | 6 | 6 | 6 | 2 | 6 | 4 | 2 | 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 |
| <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 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 |
|                                   | 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 |
| Multiple Organ                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant                |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

females (cont...)

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
x .. Lesion present  
l .. Insufficient tissue

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



|                            |   |   |   |   |   |   |   |   |   |   |   |          |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| 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 |          |
| PH 7.0 NO SSL-F            | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |          |
|                            | 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 |
| Squamous Cell Papilloma |   |   |   |   |   |   |   |   |   |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

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

|                              |   |   |   |   |   |   |   |   |   |   |   |   |           |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Skin, Site Of Application    | + | + | + | + | + | + | + | + | + | + | + | + | <b>36</b> |
| Keratoacanthoma, One         |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymphoma Malignant           |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Papilloma, One | X |   |   | X |   |   |   |   |   |   |   |   | <b>5</b>  |
| Squamous Cell Papilloma, Two |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

| 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 |                 |
| <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>PH 7.0 NO SSL-F</b>            |  | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |                 |
| ANIMAL ID                         |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |                 |
|                                   |  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | <b>* TOTALS</b> |
| Multiple Organ                    |  | + | + | + | + | + | + | + | + | + | + | + | <b>36</b>       |
| Lymphoma Malignant                |  |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

TDMS No. 20117 - 02

P04: NEOPLASMS 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 |   |
|   | 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 | 7 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 |
| SKH-1 HAIRLESS MICE (NCTR)<br>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 |
|   | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID<br>NO CREAM6.75SSLF             | 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

+ +

Fibroma

Squamous Cell Papilloma

X

\* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
x .. Lesion present
I .. Insufficient tissue

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

| 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 | 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 | 7 | 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 |
| <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 CREAM6.75SSLF</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 |
| ANIMAL ID                         | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 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...)

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin, Site Of Application            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Squamous Cell Carcinoma, One         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, One |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, Two |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Squamous Cell Papilloma, One         |   |   |   | X | X | X |   | X |   | X |   | X |   | X |   |   |   | X |   |   |   |   |   | X |   |
| Squamous Cell Papilloma, Three       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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 tumor  
+ .. Tissue examined microscopically  
x .. Lesion present  
I .. Insufficient tissue

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

TDMS No. 20117 - 02  
 Test Type: 1-YEAR  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/SKH-1/NCTR

**P04: NEOPLASMS 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 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
|  | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
|  | 6 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
|  | 7 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| .....  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| SKH-1 HAIRLESS MICE (NCTR)<br>MICE FEMALE<br>ANIMAL ID | 0 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
|  | 6 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
|  | 7 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
|  | 0 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| NO CREAM6.75SSLF                                       | 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<br>(cont...) |

**SYSTEMIC LESIONS**

Multiple Organ

.....  
 +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                            |   |   |   |   |   |   |   |   |   |   |   |          |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| 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 |
| Fibroma                 | X |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Papilloma |   |   |   |   |   |   |   | X |   |   |   | 2  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                                   |   |   |   |   |   |   |   |   |   |   |   |                 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 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 |                 |
| .....                             |   |   |   |   |   |   |   |   |   |   |   |                 |
| <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> |
| Squamous Cell Carcinoma, One         |   |   |   |   |   | X |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Carcinoma In Situ, One |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Carcinoma In Situ, Two |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Papilloma, One         |   |   |   |   | X |   | X |   | X |   |   | <b>11</b> |
| Squamous Cell Papilloma, Three       |   |   |   |   |   |   |   |   |   |   |   | <b>2</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 tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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



|                            |   |   |   |   |   |   |   |   |   |   |   |          |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
|                            | 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 |          |
| .....                      |   |   |   |   |   |   |   |   |   |   |   |          |
| 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 |

**SYSTEMIC LESIONS**

Multiple Organ

.....  
 + + + + + + + + + + +

**36**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                   | 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 | 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 |   |
|                                   | 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |   |
| <b>PH 7.0 6.75SSLF</b>            | 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           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Squamous Cell Papilloma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

| 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 | 2 | 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 |

---

| SKH-1 HAIRLESS MICE (NCTR)<br>MICE FEMALE<br>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 |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 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 |   |
| 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...)

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin, Site Of Application                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Carcinoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Keratoacanthoma, One                       | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma, One               |   | X |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Squamous Cell Carcinoma, Two               |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | X |   |   |
| Squamous Cell Carcinoma, Three             |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, One       |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Squamous Cell Carcinoma In Situ, Two       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Squamous Cell Carcinoma In Situ, Three     |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, Four      |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, One               | X |   |   | X |   |   |   | X | X |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, Two               |   |   |   |   | X |   |   |   |   | X | X |   |   |   | X |   | X |   | X |   |   |   |   |   |
| Squamous Cell Papilloma, Three             |   |   |   |   |   |   |   | X | X |   |   |   |   |   | X |   | X |   | X |   |   |   |   | X |
| Squamous Cell Papilloma, Four              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Squamous Cell Papilloma, Five              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Squamous Cell Papilloma, Greater Than Five |   |   | X |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                   | 0 | 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 | 2 | 3 | 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 |   |
| <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 |   |
| 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 |   |
| <b>PH 7.0 6.75SSLF</b>            | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |   |
|                                   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females (cont...)

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

.....  
+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                                   |   |   |   |   |   |   |   |   |   |   |   |                 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|                                   | 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> |
| Squamous Cell Papilloma |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

| 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 |
| .....                             |   |   |   |   |   |   |   |   |   |   |   |
| <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>ANIMAL ID</b>                  | 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 |

\* TOTALS

|  |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|----|
| Skin, Site Of Application                  | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Basal Cell Carcinoma                       |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Keratoacanthoma, One                       |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Carcinoma, One               |   |   |   |   |   |   |   |   | X |   |   | 5  |
| Squamous Cell Carcinoma, Two               |   |   | X |   |   |   |   |   |   |   |   | 3  |
| Squamous Cell Carcinoma, Three             |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Carcinoma In Situ, One       |   |   |   |   |   |   |   |   | X |   |   | 3  |
| Squamous Cell Carcinoma In Situ, Two       |   |   | X |   |   |   |   |   |   |   |   | 2  |
| Squamous Cell Carcinoma In Situ, Three     |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Carcinoma In Situ, Four      |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Papilloma, One               |   |   | X |   | X |   |   |   | X | X |   | 9  |
| Squamous Cell Papilloma, Two               |   | X |   | X |   |   |   |   |   |   |   | 8  |
| Squamous Cell Papilloma, Three             |   |   |   |   |   |   |   | X |   |   |   | 6  |
| Squamous Cell Papilloma, Four              |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Papilloma, Five              | X |   |   |   |   |   | X |   |   |   |   | 3  |
| Squamous Cell Papilloma, Greater Than Five |   |   |   |   |   |   |   |   |   |   |   | 4  |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

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

**SYSTEMIC LESIONS**

Multiple Organ

.....  
+ + + + + + + + + + +

**36**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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





| DAY ON TEST                       | 0 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                   | 8 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                   | 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 |
| <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 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                                   | 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                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Squamous Cell Carcinoma, One               |   |   | X |   |   |   |   |   | X |   | X | X |   | X | X |   | X |   |   |   |   |   |   |   | X |
| Squamous Cell Carcinoma, Two               |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Squamous Cell Carcinoma, Three             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Squamous Cell Carcinoma, Four              |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, One       |   |   | X |   | X |   | X |   |   |   | X |   |   |   |   |   | X | X |   |   |   |   | X |   |   |
| Squamous Cell Carcinoma In Situ, Three     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, Four      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |
| Squamous Cell Papilloma, One               |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | X | X |   |
| Squamous Cell Papilloma, Two               |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   | X |
| Squamous Cell Papilloma, Three             |   |   |   |   |   |   |   | X |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, Four              | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   |   |
| Squamous Cell Papilloma, Five              |   |   |   | X | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, Greater Than Five |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   | X |   |   |   | X |   |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

TDMS No. 20117 - 02  
 Test Type: 1-YEAR  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/SKH-1/NCTR

**P04: NEOPLASMS 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 |
|   | 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 |
| <b>SKH-1 HAIRLESS MICE (NCTR)<br/>MICE FEMALE</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 |
|   | 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 | 8 | 8 |
|   | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 |
| <b>.1% RP 6.75SSLF</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...)**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                            |   |   |   |   |   |   |   |   |   |   |   |          |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| 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 |
| Squamous Cell Papilloma |   |   |   |   |   |   |   |   |   |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

| 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 |
| .....                             |   |   |   |   |   |   |   |   |   |   |   |
| <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 |

\* TOTALS

|  |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|----|
| Skin, Site Of Application                  | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Squamous Cell Carcinoma, One               |   |   | X |   |   |   | X |   |   |   |   | 10 |
| Squamous Cell Carcinoma, Two               |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Squamous Cell Carcinoma, Three             |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Carcinoma, Four              |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Carcinoma In Situ, One       |   |   |   | X |   |   |   |   |   |   |   | 8  |
| Squamous Cell Carcinoma In Situ, Three     |   | X |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Carcinoma In Situ, Four      |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Papilloma, One               |   |   |   |   |   |   |   | X |   |   |   | 6  |
| Squamous Cell Papilloma, Two               |   |   | X |   |   |   |   |   |   |   |   | 5  |
| Squamous Cell Papilloma, Three             |   |   |   |   |   |   |   |   | X |   |   | 4  |
| Squamous Cell Papilloma, Four              | X |   |   |   |   |   |   |   |   |   |   | 4  |
| Squamous Cell Papilloma, Five              |   |   |   |   | X |   |   |   |   | X |   | 5  |
| Squamous Cell Papilloma, Greater Than Five |   | X |   |   |   | X | X |   |   |   |   | 7  |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                                   |   |   |   |   |   |   |   |   |   |   |                 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|-----------------|
| 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               |
| .....                             |   |   |   |   |   |   |   |   |   |   |                 |
| <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> |

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

.....  
+ + + + + + + + + + +

**36**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

TDMS No. 20117 - 02  
Test Type: 1-YEAR  
Route: SKIN APPLICATION  
Species/Strain: MICE/SKH-1/NCTR

P04: NEOPLASMS 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 | 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 |
| <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>.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 |
| 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 | 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           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Squamous Cell Papilloma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
x .. Lesion present  
I .. Insufficient tissue

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

TDMS No. 20117 - 02  
 Test Type: 1-YEAR  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/SKH-1/NCTR

P04: NEOPLASMS 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 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|             | 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 |
|             | 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 |

---

| SKH-1 HAIRLESS MICE (NCTR)<br>MICE FEMALE<br>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 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 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 |
|  | 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 |
| .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 | 7 |

females (cont...)

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin, Site Of Application                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Squamous Cell Carcinoma, One               |   |   |   |   | X |   |   | X |   |   |   | X | X | X |   |   |   |   |   |   |   | X | X |   |
| Squamous Cell Carcinoma, Two               |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, One       |   |   | X |   | X |   |   |   | X | X | X |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Squamous Cell Papilloma, One               |   |   |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, Two               | X |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   | X | X |   |   |   |   |   |   |
| Squamous Cell Papilloma, Three             |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, Four              |   |   |   |   |   |   | X | X | X | X |   |   |   |   | X |   |   |   |   |   | X | X |   |   |
| Squamous Cell Papilloma, Five              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Squamous Cell Papilloma, Greater Than Five |   | X | X | X |   |   |   |   |   | X |   |   | X | X |   |   |   | X | X | X |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 1 | 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 |
| SKH-1 HAIRLESS MICE (NCTR)<br>MICE FEMALE<br>ANIMAL ID<br>.5% RP 6.75SSLF | 0 | 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 |
|   | 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 |
|   | 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 | 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...)**

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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



|                            |   |   |   |   |   |   |   |   |   |   |   |          |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| 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 |
| Squamous Cell Papilloma |   |   |   |   |   |   |   |   |   |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

| 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 |                 |
| .....                             |   |   |   |   |   |   |   |   |   |   |   |                 |
| <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> |
| Squamous Cell Carcinoma, One               |   | X |   | X | X | X | X |   |   | X | X | <b>15</b> |
| Squamous Cell Carcinoma, Two               |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Carcinoma In Situ, One       | X |   | X |   |   |   |   |   |   | X |   | <b>9</b>  |
| Squamous Cell Papilloma, One               |   |   |   | X |   |   |   |   |   |   |   | <b>3</b>  |
| Squamous Cell Papilloma, Two               |   |   |   |   |   |   |   |   | X | X |   | <b>7</b>  |
| Squamous Cell Papilloma, Three             |   |   |   |   |   | X |   |   |   |   |   | <b>2</b>  |
| Squamous Cell Papilloma, Four              |   |   | X |   |   |   |   | X |   |   | X | <b>10</b> |
| Squamous Cell Papilloma, Five              |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Papilloma, Greater Than Five | X | X |   |   | X |   | X |   |   |   |   | <b>13</b> |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

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

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

.....  
+ + + + + + + + + + +

36

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                   | 0 | 0 | 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 | 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 | 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 | 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 |
| <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 |
|                                   | 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 | 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 | 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            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sebaceous Gland, Adenoma |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

TDMS No. 20117 - 02  
 Test Type: 1-YEAR  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/SKH-1/NCTR

**P04: NEOPLASMS 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 |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                   | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 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 |
| <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 |   |
|                                   | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |   |
| <b>ANIMAL ID</b>                  | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 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...)

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin, Site Of Application                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Carcinoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Squamous Cell Carcinoma, One               |   |   |   | X | X |   |   |   |   |   | X | X |   | X | X |   |   | X | X | X |   |   |   |   |
| Squamous Cell Carcinoma, Two               | X | X | X |   |   |   | X | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |
| Squamous Cell Carcinoma, Three             |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma, Four              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, One       |   |   |   |   | X |   |   |   |   |   |   | X | X |   | X |   | X | X |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, Two       |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X | X |   |   |
| Squamous Cell Carcinoma In Situ, Three     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, Four      |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, Five      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Squamous Cell Papilloma, One               |   | X | X |   | X |   |   | X | X | X |   | X |   |   |   |   |   |   |   |   |   |   |   | X |
| Squamous Cell Papilloma, Two               |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X | X | X | X | X |   |   |   |   |
| Squamous Cell Papilloma, Three             |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Squamous Cell Papilloma, Four              | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, Five              |   |   |   | X | X |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, Greater Than Five |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 0 | 3 | 2 | 3 | 2 | 3 | 2 | 3 |
|                            | 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 |
| 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 |
| 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 |
| 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 | 8 | 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...)

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
x .. Lesion present  
I .. Insufficient tissue

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

|                            |   |   |   |   |   |   |   |   |   |   |   |          |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| 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) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
| MICE FEMALE                | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |          |
|                            | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |          |
| ANIMAL ID                  | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 |          |
| NO CREAM13.7SSLF           | 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 |
| Sebacous Gland, Adenoma |   |   |   |   |   |   |   |   |   |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

| 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>          | 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 |                 |
|  | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |                 |
| ANIMAL ID                                  | 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> |
| Skin, Site Of Application                  | + | + | + | + | + | + | + | + | + | + | + | <b>36</b>       |
| Basal Cell Carcinoma                       |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |
| Squamous Cell Carcinoma, One               |   | X |   |   |   |   |   | X |   |   | X | <b>12</b>       |
| Squamous Cell Carcinoma, Two               |   |   |   |   |   |   |   |   | X |   |   | <b>8</b>        |
| Squamous Cell Carcinoma, Three             |   |   |   |   |   |   | X |   |   | X |   | <b>3</b>        |
| Squamous Cell Carcinoma, Four              | X |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |
| Squamous Cell Carcinoma In Situ, One       | X |   |   |   | X | X | X |   |   |   |   | <b>10</b>       |
| Squamous Cell Carcinoma In Situ, Two       |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>        |
| Squamous Cell Carcinoma In Situ, Three     |   | X |   | X |   |   |   |   |   |   |   | <b>2</b>        |
| Squamous Cell Carcinoma In Situ, Four      |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>        |
| Squamous Cell Carcinoma In Situ, Five      |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |
| Squamous Cell Papilloma, One               |   |   | X | X | X | X |   |   |   |   | X | <b>13</b>       |
| Squamous Cell Papilloma, Two               |   | X |   |   |   |   |   |   |   |   |   | <b>6</b>        |
| Squamous Cell Papilloma, Three             |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>        |
| Squamous Cell Papilloma, Four              |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>        |
| Squamous Cell Papilloma, Five              |   |   |   |   |   |   | X |   |   |   |   | <b>4</b>        |
| Squamous Cell Papilloma, Greater Than Five | X |   |   |   |   |   |   |   |   | X |   | <b>2</b>        |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

- \* .. Total animals with tissue examined microscopically; Total animals with tumor
- + .. Tissue examined microscopically
- x .. Lesion present
- I .. Insufficient tissue

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



|                                   |   |   |   |   |   |   |   |   |   |   |   |                 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
| DAY ON TEST                       | 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> | 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 |                 |
|                                   | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |                 |
| ANIMAL ID                         | 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> |

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

.....  
+ + + + + + + + + + + +

**36**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

TDMS No. 20117 - 02  
 Test Type: 1-YEAR  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/SKH-1/NCTR

**P04: NEOPLASMS 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 |   |
|                                   | 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 |
| 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           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Squamous Cell Papilloma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

| DAY ON TEST  | 0 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
|  | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 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 |                      |
| .....  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| SKH-1 HAIRLESS MICE (NCTR)<br>MICE FEMALE<br>ANIMAL ID | 0 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(cont...) |
|  | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 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 | 1 | 1 | 1 | 1 | 1 | 1 |                      |
| 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 |                      |
| PH 7.0 13.7SSLF  | 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                    |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin, Site Of Application                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Keratoacanthoma, One                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Squamous Cell Carcinoma, One               |   |   | X |   | X |   |   |   |   |   | X |   |   |   | X |   |   |   |   | X | X | X |   | X |
| Squamous Cell Carcinoma, Two               |   | X |   |   |   | X | X |   |   |   | X |   |   | X |   |   | X |   |   | X |   |   |   |   |
| Squamous Cell Carcinoma, Three             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma, Four              |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, One       | X |   | X | X |   |   | X | X |   | X |   |   |   | X |   | X | X |   | X |   |   |   |   | X |
| Squamous Cell Carcinoma In Situ, Two       |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Squamous Cell Carcinoma In Situ, Three     |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Squamous Cell Papilloma, One               |   |   |   | X |   |   |   | X |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, Two               | X | X |   |   |   | X | X |   | X |   |   |   |   |   |   |   |   | X |   |   | X |   |   | X |
| Squamous Cell Papilloma, Three             |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, Five              |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   | X |   |   |
| Squamous Cell Papilloma, Greater Than Five |   |   |   |   | X |   |   |   |   | X | X |   |   |   |   |   |   |   |   | X |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

TDMS No. 20117 - 02  
Test Type: 1-YEAR  
Route: SKIN APPLICATION  
Species/Strain: MICE/SKH-1/NCTR

P04: NEOPLASMS 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 |   |   |
|             | 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 | 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 |

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**SKH-1 HAIRLESS MICE (NCTR)**  
**MICE FEMALE**  
**PH 7.0 13.7SSLF**

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 |
| 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 |
| 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 |
| 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...)**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

---

+ +

---

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
x .. Lesion present  
I .. Insufficient tissue

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

|                            |   |   |   |   |   |   |   |   |   |   |   |          |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| 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) | 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 | 0 |          |
| ANIMAL ID                  | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |          |
| PH 7.0 13.7SSLF            | 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 |
| Squamous Cell Papilloma |   |   |   |   |   |   |   |   |   |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

| DAY ON TEST                       | 0 | 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 |                 |
| <b>ANIMAL ID</b>                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
| <b>PH 7.0 13.7SSLF</b>            | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |                 |
|                                   | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |                 |
|                                   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

|  |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|----|
| Skin, Site Of Application                  | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Keratoacanthoma, One                       |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Carcinoma, One               |   |   | X | X | X |   |   |   |   |   | X | 12 |
| Squamous Cell Carcinoma, Two               |   |   |   |   |   |   | X |   |   | X |   | 9  |
| Squamous Cell Carcinoma, Three             |   |   |   |   |   | X |   | X |   |   |   | 3  |
| Squamous Cell Carcinoma, Four              |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Carcinoma In Situ, One       | X |   | X |   |   | X |   |   |   | X |   | 15 |
| Squamous Cell Carcinoma In Situ, Two       |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Squamous Cell Carcinoma In Situ, Three     |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Squamous Cell Papilloma, One               |   |   |   | X |   |   |   |   |   |   |   | 5  |
| Squamous Cell Papilloma, Two               | X |   | X |   |   |   | X | X |   |   |   | 12 |
| Squamous Cell Papilloma, Three             |   |   |   |   |   |   |   |   |   | X |   | 3  |
| Squamous Cell Papilloma, Five              |   |   |   |   |   |   |   |   |   |   |   | 4  |
| Squamous Cell Papilloma, Greater Than Five |   | X |   |   |   | X |   |   |   |   | X | 7  |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                                   |   |   |   |   |   |   |   |   |   |   |   |                 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|                                   | 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> |

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

.....  
+ + + + + + + + + + +

**36**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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





| 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 | 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 |  |
|                                   | 9 | 5 | 2 | 2 | 5 | 7 | 2 | 2 | 3 | 9 | 6 | 6 | 9 | 8 | 5 | 1 | 0 | 5 | 8 | 8 | 5 | 5 | 8 | 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>.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 |  |
| <b>ANIMAL ID</b>                  | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 |  |

females  
(cont...)

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin, Site Of Application                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Squamous Cell Carcinoma, One                       | X |   |   |   | X |   |   |   |   |   |   | X | X | X |   |   |   | X | X |   |   |   |   |   |
| Squamous Cell Carcinoma, Two                       |   |   | X |   |   | X | X |   | X | X |   |   | X |   |   |   |   |   |   | X |   |   |   | X |
| Squamous Cell Carcinoma, Three                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma, Four                      |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, One               |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   |   | X |   |
| Squamous Cell Carcinoma In Situ, Two               | X |   | X |   |   |   |   |   | X | X |   |   |   | X | X |   |   |   | X |   | X |   |   |   |
| Squamous Cell Carcinoma In Situ, Three             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, Four              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, Five              |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, Greater Than Five |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, One                       |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, Two                       |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   | X |   | X |   |   |   |   |
| Squamous Cell Papilloma, Three                     | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, Four                      |   |   |   |   |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | X |
| Squamous Cell Papilloma, Five                      |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Squamous Cell Papilloma, Greater Than Five         |   |   | X |   |   |   |   |   | X | X | X |   |   | X | X | X |   |   |   | X | X |   |   | X |

**MUSCULOSKELETAL SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

TDMS No. 20117 - 02  
 Test Type: 1-YEAR  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/SKH-1/NCTR

P04: NEOPLASMS 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 | 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 |
|             | 9 | 5 | 2 | 2 | 5 | 7 | 2 | 2 | 3 | 9 | 6 | 6 | 9 | 8 | 5 | 1 | 0 | 5 | 8 | 8 | 5 | 5 | 8 | 9 |

---

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SKH-1 HAIRLESS MICE (NCTR)<br>MICE FEMALE<br>ANIMAL ID<br>.1% RP 13.7SSLF | 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 |
|   | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |

females  
(cont...)

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

Kidney

**SYSTEMIC LESIONS**

Multiple Organ

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                            |   |   |   |   |   |   |   |   |   |   |   |          |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| 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 |          |
| .....                      |   |   |   |   |   |   |   |   |   |   |   |          |
| 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 | 0 |          |
| ANIMAL ID                  | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |          |
| .1% RP 13.7SSLF            | 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 |
| Squamous Cell Papilloma |   |   |   |   |   |   |   |   |   | X |   | 2  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

| 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> |
| Skin, Site Of Application                          | + | + | + | + | + | + | + | + | + | + | + | <b>36</b>       |
| Squamous Cell Carcinoma, One                       |   | X | X | X |   |   |   | X | X |   |   | <b>12</b>       |
| Squamous Cell Carcinoma, Two                       |   |   |   |   |   |   | X |   |   |   |   | <b>9</b>        |
| Squamous Cell Carcinoma, Three                     | X |   |   |   |   |   |   |   |   | X |   | <b>3</b>        |
| Squamous Cell Carcinoma, Four                      |   |   |   |   |   | X |   |   |   |   |   | <b>5</b>        |
| Squamous Cell Carcinoma In Situ, One               |   |   |   |   | X | X |   |   | X | X |   | <b>8</b>        |
| Squamous Cell Carcinoma In Situ, Two               |   |   | X | X |   |   |   |   |   |   |   | <b>10</b>       |
| Squamous Cell Carcinoma In Situ, Three             |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |
| Squamous Cell Carcinoma In Situ, Four              |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>        |
| Squamous Cell Carcinoma In Situ, Five              |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |
| Squamous Cell Carcinoma In Situ, Greater Than Five |   |   |   |   |   |   |   | X |   |   |   | <b>3</b>        |
| Squamous Cell Papilloma, One                       | X |   |   |   |   | X |   |   |   |   |   | <b>3</b>        |
| Squamous Cell Papilloma, Two                       |   | X | X |   |   |   |   |   |   |   |   | <b>6</b>        |
| Squamous Cell Papilloma, Three                     |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>        |
| Squamous Cell Papilloma, Four                      |   |   |   | X |   |   |   |   |   |   |   | <b>4</b>        |
| Squamous Cell Papilloma, Five                      |   |   |   |   |   | X |   |   |   |   |   | <b>3</b>        |
| Squamous Cell Papilloma, Greater Than Five         |   |   |   |   |   |   | X | X | X |   |   | <b>13</b>       |

**MUSCULOSKELETAL SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                                   |   |   |   |   |   |   |   |   |   |   |   |                 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 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> |

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

Kidney ..... + 1

**SYSTEMIC LESIONS**

Multiple Organ ..... + + + + + + + + + + 36

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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



| 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 | 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 | 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>.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 |
| ANIMAL ID                         | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 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...)

|  |   |   |  |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|--|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Squamous Cell Carcinoma, One               |   |   |  |   |   | X | X |  | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma, Two               |   |   |  |   |   |   |   |  |   |   |   | X | X |   | X | X |   | X | X |   |   | X |   |   |   |
| Squamous Cell Carcinoma, Three             | X |   |  | X | X |   |   |  |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |
| Squamous Cell Carcinoma, Four              |   | X |  |   |   |   |   |  |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Squamous Cell Carcinoma In Situ, One       |   |   |  |   |   |   |   |  |   | X | X |   |   | X |   |   |   |   |   |   |   | X |   |   |   |
| Squamous Cell Carcinoma In Situ, Two       |   |   |  |   |   |   |   |  |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma In Situ, Three     |   |   |  |   | X |   |   |  |   |   |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   |
| Squamous Cell Papilloma, One               | X |   |  |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, Two               |   | X |  |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, Three             |   |   |  |   |   |   |   |  | X | X |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, Four              |   |   |  | X | X |   |   |  |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, Five              |   |   |  |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma, Greater Than Five |   |   |  |   | X | X |   |  |   |   | X | X |   | X |   |   |   | X | X | X | X | X | X | X | X |

**MUSCULOSKELETAL SYSTEM**  
NONE

**NERVOUS SYSTEM**  
NONE

**RESPIRATORY SYSTEM**  
NONE

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                                   | 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 | 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 |  |
| .....                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| <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 |  |
| 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 |  |
| <b>.5% RP 13.7SSLF</b>            | 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 |  |
|                                   | 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...)

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

.....  
+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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



|                            |   |   |   |   |   |   |   |   |   |   |   |          |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| 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 |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | 36 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

| 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 |
| <b>ANIMAL ID</b>                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| <b>.5% RP 13.7SSLF</b>            | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
|                                   | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

\* TOTALS

|  |   |   |  |   |   |   |   |   |   |   |   |    |
|--|---|---|--|---|---|---|---|---|---|---|---|----|
| Squamous Cell Carcinoma, One               |   | X |  | X |   | X |   | X | X |   | X | 9  |
| Squamous Cell Carcinoma, Two               | X |   |  |   |   |   |   |   |   |   |   | 8  |
| Squamous Cell Carcinoma, Three             |   |   |  |   |   |   |   |   |   |   |   | 5  |
| Squamous Cell Carcinoma, Four              |   |   |  |   |   |   |   |   |   |   |   | 3  |
| Squamous Cell Carcinoma In Situ, One       |   |   |  |   |   |   |   |   |   |   |   | 4  |
| Squamous Cell Carcinoma In Situ, Two       |   |   |  |   |   |   | X |   |   |   |   | 2  |
| Squamous Cell Carcinoma In Situ, Three     |   |   |  |   |   |   |   |   | X |   | X | 5  |
| Squamous Cell Papilloma, One               |   |   |  |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Papilloma, Two               | X |   |  | X |   |   |   |   |   |   |   | 3  |
| Squamous Cell Papilloma, Three             |   |   |  |   |   |   |   |   |   |   |   | 3  |
| Squamous Cell Papilloma, Four              |   |   |  |   | X |   |   |   |   |   |   | 5  |
| Squamous Cell Papilloma, Five              |   |   |  |   |   |   |   |   | X |   |   | 1  |
| Squamous Cell Papilloma, Greater Than Five |   |   |  |   |   | X | X | X |   | X | X | 15 |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                            |   |   |   |   |   |   |   |   |   |   |                 |
|----------------------------|---|---|---|---|---|---|---|---|---|---|-----------------|
| 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               |
|                            |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

.....  
+ + + + + + + + + + +

**36**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

| 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             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

| 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 | 2 | 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 | 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 | 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 | 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>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 | 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 | 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...)

|  |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |
|--|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|--|---|---|
| Squamous Cell Carcinoma, One               |   | X |   |   |  |   | X | X |   |   |   |   |   |   | X |  |   |   |   |   |   |  | X | X |
| Squamous Cell Carcinoma, Two               | X |   |   | X |  |   |   |   | X | X |   | X |   |   |   |  |   |   |   |   |   |  |   |   |
| Squamous Cell Carcinoma, Three             |   |   |   |   |  |   |   | X |   |   |   |   |   |   | X |  |   | X | X |   |   |  |   |   |
| Squamous Cell Carcinoma, Four              |   |   |   | X |  |   |   |   |   |   | X |   |   |   |   |  | X |   |   |   |   |  |   |   |
| Squamous Cell Carcinoma In Situ, One       |   |   |   | X |  |   |   |   | X |   | X |   |   |   |   |  |   |   |   |   |   |  |   | X |
| Squamous Cell Carcinoma In Situ, Two       | X |   |   |   |  | X |   |   |   |   |   |   |   |   |   |  |   | X |   |   |   |  | X |   |
| Squamous Cell Carcinoma In Situ, Three     |   |   |   |   |  |   |   |   |   |   |   |   |   | X |   |  |   |   | X |   |   |  |   |   |
| Squamous Cell Carcinoma In Situ, Four      |   |   |   |   |  |   |   |   |   | X |   |   |   |   | X |  |   |   |   |   |   |  |   |   |
| Squamous Cell Carcinoma In Situ, Five      |   |   |   |   |  |   |   |   |   |   | X |   |   |   |   |  |   |   |   |   |   |  |   |   |
| Squamous Cell Papilloma, One               |   |   |   |   |  |   | X | X |   | X |   |   | X |   |   |  |   | X |   | X | X |  |   |   |
| Squamous Cell Papilloma, Two               | X |   | X |   |  |   |   |   |   |   |   |   |   |   |   |  | X |   |   |   |   |  |   |   |
| Squamous Cell Papilloma, Three             |   |   |   |   |  |   |   |   | X |   |   |   |   |   |   |  |   | X | X |   |   |  |   |   |
| Squamous Cell Papilloma, Four              |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |
| Squamous Cell Papilloma, Five              |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |
| Squamous Cell Papilloma, Greater Than Five |   |   |   |   |  |   |   |   |   |   |   | X |   |   |   |  |   |   |   |   |   |  |   |   |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| 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 | 2 | 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 | 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 | 2 | 9 |  |  |
| .....                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| 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 FEMALE                | 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 |  |  |
|                            | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  |  |
| ANIMAL ID                  | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |  |  |
| NOCREAMF20.55SSL           | 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

**SYSTEMIC LESIONS**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

|                            |   |   |   |   |   |   |   |   |   |   |   |          |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| 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 |          |
|                            | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |          |
| ANIMAL ID                  | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |          |
| NOCREAMF20.55SSL           | 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 |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | 36 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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

| 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               |
| .....                             |   |   |   |   |   |   |   |   |   |   |                 |
| <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> |

|  |   |   |   |   |   |   |   |   |   |   |           |
|--|---|---|---|---|---|---|---|---|---|---|-----------|
| Squamous Cell Carcinoma, One               |   | X |   | X |   | X | X |   | X |   | <b>11</b> |
| Squamous Cell Carcinoma, Two               |   |   | X |   |   |   |   | X |   | X | <b>8</b>  |
| Squamous Cell Carcinoma, Three             |   |   |   |   |   |   |   |   |   |   | <b>4</b>  |
| Squamous Cell Carcinoma, Four              |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Squamous Cell Carcinoma In Situ, One       |   | X | X | X |   |   | X |   |   | X | <b>9</b>  |
| Squamous Cell Carcinoma In Situ, Two       |   |   |   |   | X |   |   |   |   | X | <b>6</b>  |
| Squamous Cell Carcinoma In Situ, Three     |   |   |   |   |   | X |   | X |   |   | <b>4</b>  |
| Squamous Cell Carcinoma In Situ, Four      |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Squamous Cell Carcinoma In Situ, Five      |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Papilloma, One               |   | X | X |   |   |   |   |   |   |   | <b>9</b>  |
| Squamous Cell Papilloma, Two               |   |   |   |   |   |   | X |   |   |   | <b>4</b>  |
| Squamous Cell Papilloma, Three             |   |   |   |   |   |   |   |   | X |   | <b>4</b>  |
| Squamous Cell Papilloma, Four              |   |   |   |   |   |   |   | X |   |   | <b>1</b>  |
| Squamous Cell Papilloma, Five              |   |   |   |   | X |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Papilloma, Greater Than Five | X |   |   | X |   | X |   |   |   |   | <b>4</b>  |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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



|                            |   |   |   |   |   |   |   |   |   |   |   |          |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| 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 |          |
|                            | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |          |
| ANIMAL ID                  | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |          |
| NOCREAMF20.55SSL           | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | * TOTALS |

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

+ + + + + + + + + + +

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\*\*\* END OF REPORT \*\*\*

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

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