

**TDMS No.** 20117 - 01

**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:** 16:29:37

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

**Lab:** NCTR

**C Number:** C20117

**Lock Date:** 12/01/2008

**Cage Range:** ALL

**Date Range:** ALL

**Reasons For Removal:** ALL

**Removal Date Range:** ALL

**Treatment Groups:** Include ALL

**Study Gender:** Male

**TDMSE Version:** 2.1.0

	0	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3		
	3	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	6		
	1	4	8	8	8	8	8	8	8	8	0	8	8	8	8	8	0	8	8	8	8	8	0	8		
.....																										
<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 MALE</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	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
ANIMAL ID	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	7	7		
<b>NO CREAMNO SSL-M</b>	5	6	7	8	9	0	2	3	4	5	6	7	8	9	0	1	2	4	5	6	7	8	9	0	1	

males  
(cont...)

**ALIMENTARY SYSTEM**  
NONE

**CARDIOVASCULAR SYSTEM**  
NONE

**ENDOCRINE SYSTEM**  
NONE

**GENERAL BODY SYSTEM**  
NONE

**GENITAL SYSTEM**  
NONE

**HEMATOPOIETIC SYSTEM**  
NONE

**INTEGUMENTARY SYSTEM**

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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	0	
	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	
	3	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	6		
	1	4	8	8	8	8	8	8	8	8	0	8	8	8	8	8	0	8	8	8	8	8	8	0	8		
.....																											
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
ANIMAL ID	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	
NO CREAMNO SSL-M	5	6	7	8	9	0	2	3	4	5	6	7	8	9	0	1	2	4	5	6	7	8	9	0	1		

males  
(cont...)

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

	0	0	0	0	0	0	0	0	0
DAY ON TEST	3	3	3	3	3	1	3	3	2
	6	6	6	6	6	9	6	6	7
	8	8	8	8	8	3	8	8	7
.....									
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0
MICE MALE	7	7	7	7	7	7	7	7	7
	2	2	2	2	2	2	2	2	2
ANIMAL ID	7	7	7	7	7	7	7	7	8
NO CREAMNO SSL-M	2	3	4	5	6	7	8	9	0
									<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>34</b>
Skin, Site Of Application	+	+	+	+	+	+	+	+	+	<b>34</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
	3	3	3	3	3	1	3	3	2
	6	6	6	6	6	9	6	6	7
	8	8	8	8	8	3	8	8	7
.....									
SKH-1 HAIRLESS MICE (NCTR)	0	0	0	0	0	0	0	0	0
MICE MALE	7	7	7	7	7	7	7	7	7
	2	2	2	2	2	2	2	2	2
ANIMAL ID	7	7	7	7	7	7	7	7	8
NO CREAMNO SSL-M	2	3	4	5	6	7	8	9	0
									<b>* TOTALS</b>

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

+ + + + + + + + +

34

\* .. 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	0
	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
	0	6	3	6	6	6	6	2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	5	8	1	8	8	8	8	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	5	
<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 MALE</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	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	
ANIMAL ID	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	
<b>PH 7.0 NO SSL-M</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	

males  
(cont...)

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

Skin, Control

+ +

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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 |
|                                   | 0 | 6 | 3 | 6 | 6 | 6 | 6 | 2 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                                   | 5 | 8 | 1 | 8 | 8 | 8 | 8 | 4 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 5 |
| <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 MALE</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>PH 7.0 NO SSL-M</b>            | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| <b>ANIMAL ID</b>                  | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males (cont...)

|                               |   |  |   |   |  |   |   |   |  |  |   |  |   |  |  |  |  |  |  |   |  |   |  |  |   |  |  |
|-------------------------------|---|--|---|---|--|---|---|---|--|--|---|--|---|--|--|--|--|--|--|---|--|---|--|--|---|--|--|
| Keratoacanthoma, One          | X |  |   |   |  |   |   |   |  |  |   |  |   |  |  |  |  |  |  |   |  |   |  |  | X |  |  |
| Squamous Cell Carcinoma, One  | X |  |   |   |  |   |   |   |  |  |   |  |   |  |  |  |  |  |  |   |  |   |  |  |   |  |  |
| Squamous Cell Papilloma, One  | X |  | X | X |  |   |   | X |  |  | X |  | X |  |  |  |  |  |  | X |  | X |  |  |   |  |  |
| Squamous Cell Papilloma, Two  |   |  |   |   |  | X | X |   |  |  |   |  |   |  |  |  |  |  |  |   |  |   |  |  |   |  |  |
| Squamous Cell Papilloma, Four |   |  |   |   |  |   |   |   |  |  |   |  |   |  |  |  |  |  |  |   |  |   |  |  |   |  |  |

**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 - 01  
 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: 16:29:37  
 First Dose M/F: 06/22/03 / NA  
 Lab: NCTR

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

males  
(cont...)

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

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Skin, Control             | + | + | + | + | + | + | + | + | + | + | + | 36 |
| 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 | 2 | 3 | 3 |                 |
|                            | 2 | 6 | 6 | 4 | 6 | 6 | 6 | 6 | 0 | 6 | 6 |                 |
|                            | 0 | 8 | 8 | 7 | 8 | 8 | 8 | 8 | 9 | 8 | 8 |                 |
| .....                      |   |   |   |   |   |   |   |   |   |   |   |                 |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
| MICE MALE                  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |
|                            | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                 |
| ANIMAL ID                  | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |                 |
| PH 7.0 NO SSL-M            | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |                 |
|                            |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

|                               |   |   |   |   |  |   |  |   |  |   |   |           |
|-------------------------------|---|---|---|---|--|---|--|---|--|---|---|-----------|
| Keratoacanthoma, One          | X |   |   |   |  |   |  |   |  |   |   | <b>3</b>  |
| Squamous Cell Carcinoma, One  |   |   |   |   |  |   |  |   |  |   |   | <b>1</b>  |
| Squamous Cell Papilloma, One  |   |   | X |   |  | X |  | X |  |   | X | <b>12</b> |
| Squamous Cell Papilloma, Two  |   |   |   | X |  |   |  |   |  | X |   | <b>4</b>  |
| Squamous Cell Papilloma, Four |   | X |   |   |  |   |  |   |  |   |   | <b>1</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

|                                   |   |   |   |   |   |   |   |   |   |   |   |                 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
| DAY ON TEST                       | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 |                 |
|                                   | 2 | 6 | 6 | 4 | 6 | 6 | 6 | 6 | 0 | 6 | 6 |                 |
|                                   | 0 | 8 | 8 | 7 | 8 | 8 | 8 | 8 | 9 | 8 | 8 |                 |
| .....                             |   |   |   |   |   |   |   |   |   |   |   |                 |
| <b>SKH-1 HAIRLESS MICE (NCTR)</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
| <b>MICE MALE</b>                  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |
|                                   | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                 |
| ANIMAL ID                         | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |                 |
| <b>PH 7.0 NO SSL-M</b>            | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | <b>* TOTALS</b> |
| Multiple Organ                    | + | + | + | + | + | + | + | + | + | + | + | <b>36</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 - 01  
 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: 16:29:37  
 First Dose M/F: 06/22/03 / NA  
 Lab: NCTR

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| DAY ON TEST                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |
|                                   | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 2 |  |  |
|                                   | 8 | 8 | 6 | 6 | 6 | 6 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 |   |  |  |
|                                   | 3 | 9 | 8 | 8 | 8 | 8 | 2 | 0 | 8 | 8 | 8 | 8 | 2 | 8 | 8 | 8 | 8 | 8 | 8 | 2 | 8 | 8 | 8 | 3 |   |  |  |
| .....                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| <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 MALE</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 |  |  |
|                                   | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |  |  |
| ANIMAL ID                         | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |   |  |  |
| <b>NO CREAM6.75SSLM</b>           | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |  |  |

males  
(cont...)

**ALIMENTARY SYSTEM**  
 NONE

**CARDIOVASCULAR SYSTEM**  
 NONE

**ENDOCRINE SYSTEM**  
 NONE

**GENERAL BODY SYSTEM**  
 NONE

**GENITAL SYSTEM**  
 NONE

**HEMATOPOIETIC SYSTEM**  
 NONE

**INTEGUMENTARY SYSTEM**

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin, Control           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Squamous Cell Papilloma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

|                         |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Skin, Control           | + | + | + | + | + | + | + | + | + | + | + | 35 |
| Sarcoma                 |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Papilloma |   |   |   |   |   | X |   |   |   |   |   | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                 |
|                                   | 1 | 6 | 6 | 6 | 6 | 6 | 5 | 4 | 6 | 6 | 6 |                 |
|                                   | 9 | 8 | 8 | 8 | 8 | 8 | 4 | 7 | 8 | 8 | 8 |                 |
| .....                             |   |   |   |   |   |   |   |   |   |   |   |                 |
| <b>SKH-1 HAIRLESS MICE (NCTR)</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
| <b>MICE MALE</b>                  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |
|                                   | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |                 |
| ANIMAL ID                         | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |                 |
| <b>NO CREAM6.75SSLM</b>           | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |                 |
|                                   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

|                                      |   |   |   |   |   |   |   |   |   |   |   |           |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Skin, Site Of Application            | + | + | + | + | + | + | + | + | + | + | + | <b>35</b> |
| Squamous Cell Carcinoma, One         |   |   |   |   |   |   | X |   |   |   |   | <b>2</b>  |
| Squamous Cell Carcinoma In Situ, One |   |   |   |   |   |   |   | X |   |   |   | <b>1</b>  |
| Squamous Cell Papilloma, One         |   |   |   |   | X |   |   |   |   |   |   | <b>4</b>  |
| Squamous Cell Papilloma, Three       |   |   |   |   |   | X |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Papilloma, Five        |   |   |   |   |   |   |   |   |   |   |   | <b>1</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                | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |          |
|                            | 1 | 6 | 6 | 6 | 6 | 6 | 5 | 4 | 6 | 6 | 6 |          |
|                            | 9 | 8 | 8 | 8 | 8 | 8 | 4 | 7 | 8 | 8 | 8 |          |
| .....                      |   |   |   |   |   |   |   |   |   |   |   |          |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
| MICE MALE                  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |          |
|                            | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |          |
| ANIMAL ID                  | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |          |
| NO CREAM6.75SSLM           | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | * TOTALS |

**SYSTEMIC LESIONS**

Multiple Organ

+ + + + + + + + + +

35

\* .. 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 - 01  
 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: 16:29:37  
 First Dose M/F: 06/22/03 / NA  
 Lab: NCTR

| DAY ON TEST                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                   | 3 | 2 | 2 | 2 | 3 | 2 | 0 | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 2 | 3 | 2 | 2 | 0 | 2 | 2 | 2 | 2 |
|                                   | 1 | 8 | 6 | 9 | 2 | 7 | 2 | 5 | 9 | 6 | 5 | 1 | 7 | 8 | 2 | 9 | 2 | 6 | 2 | 4 | 1 | 3 | 7 | 7 | 6 |
|                                   | 7 | 3 | 1 | 1 | 7 | 7 | 3 | 4 | 2 | 3 | 4 | 3 | 7 | 1 | 0 | 9 | 9 | 8 | 2 | 9 | 6 | 5 | 1 | 6 | 3 |
| <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 MALE</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>PH 7.0 6.75SSLM</b>            | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| <b>ANIMAL ID</b>                  | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|                                   | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

males (cont...)

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

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

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

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

|  |   |   |   |   |   |   |   |   |   |   |   |           |
|--|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Squamous Cell Carcinoma, One               | X |   |   |   |   |   |   |   |   |   | X | <b>7</b>  |
| Squamous Cell Carcinoma, Two               |   |   |   |   |   | X |   |   |   |   |   | <b>2</b>  |
| Squamous Cell Carcinoma In Situ, One       |   |   |   |   |   |   |   | X | X |   |   | <b>5</b>  |
| Squamous Cell Carcinoma In Situ, Two       |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Squamous Cell Carcinoma In Situ, Four      |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Papilloma, One               | X | X |   |   |   | X |   |   |   |   |   | <b>5</b>  |
| Squamous Cell Papilloma, Two               |   |   |   | X |   |   |   |   |   |   |   | <b>2</b>  |
| Squamous Cell Papilloma, Three             |   |   |   |   |   |   | X |   |   |   |   | <b>5</b>  |
| Squamous Cell Papilloma, Four              |   |   |   |   |   |   |   |   |   |   |   | <b>4</b>  |
| Squamous Cell Papilloma, Five              |   |   | X |   |   |   |   | X | X |   |   | <b>5</b>  |
| Squamous Cell Papilloma, Greater Than Five |   |   |   |   | X |   |   |   |   | X |   | <b>10</b> |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

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

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

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Skin, Control             | + | + | + | + | + | + | + | + | + | + | + | 36 |
| 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 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 |                 |
|                                   | 4 | 6 | 1 | 3 | 5 | 2 | 8 | 5 | 3 | 3 | 2 |                 |
|                                   | 2 | 9 | 4 | 3 | 5 | 6 | 1 | 6 | 5 | 5 | 7 |                 |
| .....                             |   |   |   |   |   |   |   |   |   |   |   |                 |
| <b>SKH-1 HAIRLESS MICE (NCTR)</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
| <b>MICE MALE</b>                  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |
| <b>.1% RP 6.75SSLM</b>            | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |                 |
| <b>ANIMAL ID</b>                  | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |                 |
|                                   | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | <b>* TOTALS</b> |

|  |   |   |   |   |   |   |  |   |   |   |   |           |
|--|---|---|---|---|---|---|--|---|---|---|---|-----------|
| Keratoacanthoma, One                       |   |   |   |   |   |   |  |   |   |   |   | <b>1</b>  |
| Squamous Cell Carcinoma, One               |   |   |   |   | X |   |  | X |   |   |   | <b>5</b>  |
| Squamous Cell Carcinoma, Two               |   |   |   |   |   |   |  |   |   |   |   | <b>3</b>  |
| Squamous Cell Carcinoma In Situ, One       |   |   |   |   | X | X |  |   |   | X |   | <b>7</b>  |
| Squamous Cell Carcinoma In Situ, Two       | X |   |   |   |   |   |  |   |   |   |   | <b>3</b>  |
| Squamous Cell Carcinoma In Situ, Three     |   |   |   | X |   |   |  |   |   |   |   | <b>1</b>  |
| Squamous Cell Papilloma, One               |   |   |   |   | X |   |  |   |   |   |   | <b>4</b>  |
| Squamous Cell Papilloma, Two               |   |   |   |   |   |   |  |   |   |   |   | <b>3</b>  |
| Squamous Cell Papilloma, Three             |   |   |   |   |   |   |  |   |   |   |   | <b>1</b>  |
| Squamous Cell Papilloma, Four              |   |   |   |   |   | X |  | X |   |   |   | <b>3</b>  |
| Squamous Cell Papilloma, Five              |   |   |   |   |   |   |  |   |   |   | X | <b>3</b>  |
| Squamous Cell Papilloma, Greater Than Five | X | X | X | X |   |   |  |   | X | X |   | <b>18</b> |

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

males (cont...)

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|
| Basal Cell Adenoma                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |
| Squamous Cell Carcinoma, One               | X | X |   | X | X |   | X | X | 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 Carcinoma In Situ, Two       |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |
| Squamous Cell Papilloma, One               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   | X |   |   |   |
| Squamous Cell Papilloma, Two               |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |
| Squamous Cell Papilloma, Three             |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   | X |   |
| Squamous Cell Papilloma, Four              | X |   |   |   |   |   |   |   | X | 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 |   | X | X | X |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

- \* .. 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                                   | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 |
|                                   | 6 | 5 | 3 | 7 | 0 | 7 | 7 | 1 | 1 | 2 | 4 | 2 | 3 | 3 | 4 | 1 | 4 | 2 | 5 | 8 | 3 | 4 | 5 | 4 | 3 |
|                                   | 2 | 5 | 5 | 0 | 1 | 0 | 6 | 4 | 4 | 8 | 8 | 1 | 4 | 6 | 8 | 4 | 8 | 9 | 5 | 0 | 1 | 0 | 5 | 1 | 4 |
| <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 MALE</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 6.75SSLM</b>            | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| ANIMAL ID                         | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
|                                   | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 |

males  
(cont...)

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

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|----|
| Skin, Control             | + | + | + | + | + | + | + | + | + | + | 35 |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | 35 |

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

|  |   |   |   |   |   |   |   |   |   |   |           |
|--|---|---|---|---|---|---|---|---|---|---|-----------|
| Basal Cell Adenoma                         |   |   |   |   |   |   |   |   |   | X | <b>1</b>  |
| Squamous Cell Carcinoma, One               |   |   |   |   |   | X | X |   |   |   | <b>15</b> |
| Squamous Cell Carcinoma, Two               |   |   |   |   |   |   |   |   |   | X | <b>2</b>  |
| Squamous Cell Carcinoma In Situ, One       |   |   |   | X | X |   |   |   |   |   | <b>8</b>  |
| Squamous Cell Carcinoma In Situ, Two       |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Papilloma, One               |   |   |   |   |   |   |   |   |   | X | <b>2</b>  |
| Squamous Cell Papilloma, Two               |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Papilloma, Three             |   | X |   |   |   |   |   |   |   |   | <b>3</b>  |
| Squamous Cell Papilloma, Four              |   |   |   |   | X |   |   |   |   |   | <b>6</b>  |
| Squamous Cell Papilloma, Five              |   |   | X |   |   |   |   |   |   |   | <b>3</b>  |
| Squamous Cell Papilloma, Greater Than Five | X |   |   | X |   | X | X | X | X |   | <b>19</b> |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

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

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

+ + + + + + + + + +

**35**

\* .. 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                                   | 8 | 4 | 7 | 8 | 7 | 8 | 8 | 7 | 6 | 6 | 8 | 8 | 8 | 6 | 9 | 6 | 8 | 7 | 8 | 5 | 6 | 9 | 8 | 7 | 7 |
|                                   | 3 | 6 | 1 | 3 | 1 | 3 | 4 | 6 | 4 | 4 | 4 | 4 | 5 | 9 | 9 | 9 | 5 | 7 | 5 | 0 | 2 | 2 | 5 | 0 | 7 |
| <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 MALE</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>NO CREAM13.7SSLM</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                         | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
|                                   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males  
(cont...)

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

**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

TDMS No. 20117 - 01  
 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: 16:29:37  
 First Dose M/F: 06/22/03 / NA  
 Lab: NCTR

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

males  
(cont...)

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

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Skin, Control             | + | + | + | + | + | + | + | + | + | + | + | 36 |
| 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 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 |
|                                   | 4 | 5 | 6 | 6 | 9 | 9 | 2 | 9 | 7 | 6 | 3 |
|                                   | 3 | 5 | 3 | 9 | 9 | 2 | 7 | 2 | 8 | 2 | 9 |
| .....                             |   |   |   |   |   |   |   |   |   |   |   |
| <b>SKH-1 HAIRLESS MICE (NCTR)</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <b>MICE MALE</b>                  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| <b>NO CREAM13.7SSLM</b>           | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID                         | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                                   | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |

\* TOTALS

|  |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|----|
| Squamous Cell Carcinoma, One               |   |   |   | X | X |   | X | X |   |   | 13 |
| Squamous Cell Carcinoma, Two               | X | X | X |   |   |   |   |   | X |   | 7  |
| Squamous Cell Carcinoma, Three             |   |   |   |   |   | X |   |   |   |   | 6  |
| Squamous Cell Carcinoma, Five              |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Carcinoma In Situ, One       |   |   |   | X |   |   |   |   | X |   | 7  |
| Squamous Cell Carcinoma In Situ, Two       |   |   |   |   |   |   |   |   |   |   | 3  |
| Squamous Cell Carcinoma In Situ, Three     |   |   |   |   |   |   |   |   |   |   | 3  |
| Squamous Cell Carcinoma In Situ, Four      |   |   |   |   |   | X |   |   |   |   | 1  |
| Squamous Cell Papilloma, One               |   |   | X |   | X |   | X | X |   | X | 12 |
| Squamous Cell Papilloma, Two               |   |   |   |   |   |   |   |   |   |   | 6  |
| Squamous Cell Papilloma, Three             |   |   |   |   |   |   |   | X |   |   | 1  |
| Squamous Cell Papilloma, Four              |   |   |   |   |   |   |   |   |   |   | 3  |
| Squamous Cell Papilloma, Greater Than Five |   |   |   |   |   |   |   |   | X |   | 1  |

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

**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







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

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

|                         |   |   |   |   |   |   |   |   |   |   |   |           |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Skin, Control           | + | + | + | + | + | + | + | + | + | + | + | <b>36</b> |
| 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 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2               |
|                                   | 4 | 4 | 2 | 7 | 0 | 2 | 3 | 9 | 9 | 4 | 2               |
|                                   | 3 | 3 | 2 | 8 | 6 | 0 | 6 | 1 | 9 | 1 | 0               |
| .....                             |   |   |   |   |   |   |   |   |   |   |                 |
| <b>SKH-1 HAIRLESS MICE (NCTR)</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |
| <b>MICE MALE</b>                  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7               |
| <b>PH 7.0 13.7SSLM</b>            | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7               |
| <b>ANIMAL ID</b>                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1               |
|                                   | 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>  |
| Squamous Cell Carcinoma, One                       |   |   | X |   |   |   |   |   |   |   | X | <b>10</b> |
| Squamous Cell Carcinoma, Two                       |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Squamous Cell Carcinoma, Three                     |   |   | X |   |   |   |   |   |   |   |   | <b>6</b>  |
| Squamous Cell Carcinoma, Five                      |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Carcinoma In Situ, One               |   |   |   |   |   | X | X |   |   |   |   | <b>12</b> |
| Squamous Cell Carcinoma In Situ, Two               |   |   |   |   |   |   |   | X |   |   | X | <b>3</b>  |
| Squamous Cell Carcinoma In Situ, Three             |   |   | X |   |   |   |   |   |   |   |   | <b>2</b>  |
| Squamous Cell Carcinoma In Situ, Four              |   |   |   |   |   |   |   |   | X |   |   | <b>3</b>  |
| Squamous Cell Carcinoma In Situ, Five              |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Carcinoma In Situ, Greater Than Five |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Papilloma, One                       |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Squamous Cell Papilloma, Two                       |   | X |   |   |   |   | X |   | X |   | X | <b>8</b>  |
| Squamous Cell Papilloma, Three                     |   |   | X |   |   |   |   |   |   |   |   | <b>3</b>  |
| Squamous Cell Papilloma, Four                      |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Squamous Cell Papilloma, Five                      |   |   |   |   | X |   |   |   |   |   |   | <b>2</b>  |
| Squamous Cell Papilloma, Greater Than Five         |   |   | X |   |   | X |   | X |   | X |   | <b>10</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

TDMS No. 20117 - 01  
 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: 16:29:37  
 First Dose M/F: 06/22/03 / NA  
 Lab: NCTR

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

**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





| DAY ON TEST                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                   | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 |
|                                   | 0 | 1 | 2 | 0 | 9 | 9 | 3 | 2 | 1 | 2 | 1 | 8 | 8 | 2 | 1 | 8 | 5 | 1 | 1 | 1 | 7 | 1 | 7 | 2 | 6 |
|                                   | 5 | 3 | 3 | 5 | 2 | 2 | 6 | 1 | 6 | 1 | 6 | 5 | 7 | 0 | 4 | 7 | 0 | 4 | 3 | 3 | 1 | 3 | 1 | 2 | 4 |
| <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 MALE</b>                  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| <b>.1% RP 13.7SSLM</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                         | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                   | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

males (cont...)

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



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

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Skin, Control             | + | + | + | + | + | + | + | + | + | + | + | 36 |
| 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

TDMS No. 20117 - 01  
 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: 16:29:37  
 First Dose M/F: 06/22/03 / NA  
 Lab: NCTR

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

|  |   |   |   |   |   |   |   |   |  |   |  |           |
|--|---|---|---|---|---|---|---|---|--|---|--|-----------|
| Keratoacanthoma, One                               |   |   |   |   |   |   |   |   |  |   |  | <b>1</b>  |
| Squamous Cell Carcinoma, One                       |   |   |   |   | X |   |   |   |  |   |  | <b>7</b>  |
| Squamous Cell Carcinoma, Two                       | X |   |   |   |   |   |   |   |  |   |  | <b>7</b>  |
| Squamous Cell Carcinoma, Three                     |   |   |   |   |   |   | X |   |  |   |  | <b>1</b>  |
| Squamous Cell Carcinoma In Situ, One               |   |   |   |   |   |   |   |   |  | X |  | <b>10</b> |
| Squamous Cell Carcinoma In Situ, Two               |   |   |   |   |   |   |   |   |  |   |  | <b>3</b>  |
| Squamous Cell Carcinoma In Situ, Three             |   |   | X |   |   |   |   |   |  |   |  | <b>2</b>  |
| Squamous Cell Carcinoma In Situ, Four              |   |   |   |   |   |   |   |   |  |   |  | <b>1</b>  |
| Squamous Cell Carcinoma In Situ, Greater Than Five |   | X |   |   |   |   |   |   |  |   |  | <b>1</b>  |
| Squamous Cell Papilloma, One                       |   |   | X |   | X |   |   | X |  |   |  | <b>4</b>  |
| Squamous Cell Papilloma, Two                       |   |   |   |   |   |   |   |   |  |   |  | <b>1</b>  |
| Squamous Cell Papilloma, Three                     |   |   |   |   | X |   |   |   |  |   |  | <b>4</b>  |
| Squamous Cell Papilloma, Four                      |   |   |   |   |   |   |   | X |  |   |  | <b>6</b>  |
| Squamous Cell Papilloma, Five                      |   |   |   |   |   |   |   |   |  |   |  | <b>4</b>  |
| Squamous Cell Papilloma, Greater Than Five         | X | X |   | X |   | X |   |   |  |   |  | <b>15</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 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |                 |
|                                   | 0 | 9 | 1 | 0 | 1 | 0 | 9 | 9 | 2 | 6 | 7 |                 |
|                                   | 0 | 8 | 5 | 6 | 5 | 8 | 9 | 9 | 8 | 0 | 8 |                 |
| .....                             |   |   |   |   |   |   |   |   |   |   |   |                 |
| <b>SKH-1 HAIRLESS MICE (NCTR)</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
| <b>MICE MALE</b>                  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |
|                                   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |
| ANIMAL ID                         | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |                 |
| <b>.1% RP 13.7SSLM</b>            | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | <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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|                                   | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 |                 |
|                                   | 0 | 0 | 0 | 7 | 1 | 9 | 0 | 9 | 9 | 9 | 7 |                 |
|                                   | 0 | 6 | 0 | 7 | 5 | 7 | 8 | 3 | 1 | 3 | 8 |                 |
| .....                             |   |   |   |   |   |   |   |   |   |   |   |                 |
| <b>SKH-1 HAIRLESS MICE (NCTR)</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
| <b>MICE MALE</b>                  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |
|                                   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |
| ANIMAL ID                         | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 |                 |
| <b>.5% RP 13.7SSLM</b>            | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | <b>* TOTALS</b> |

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |           |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Skin, Control             | + | + | + | + | + | + | + | + | + | + | + | <b>36</b> |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | <b>36</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 | 0               |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|                                   | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1               |
|                                   | 0 | 0 | 0 | 7 | 1 | 9 | 0 | 9 | 9 | 9 | 7 | 7               |
|                                   | 0 | 6 | 0 | 7 | 5 | 7 | 8 | 3 | 1 | 3 | 8 |                 |
| .....                             |   |   |   |   |   |   |   |   |   |   |   |                 |
| <b>SKH-1 HAIRLESS MICE (NCTR)</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |
| <b>MICE MALE</b>                  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7               |
| <b>.5% RP 13.7SSLM</b>            | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7               |
| ANIMAL ID                         | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8               |
|                                   | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |                 |
|                                   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

|  |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Keratoacanthoma, One                       |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Carcinoma, One               |   | X | X | X |   | X |   |   |   |   |   | X | <b>7</b>  |
| Squamous Cell Carcinoma, Two               |   |   |   |   |   |   |   |   |   |   |   |   | <b>4</b>  |
| Squamous Cell Carcinoma, Four              |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Carcinoma In Situ, One       | X |   |   | X |   | X |   |   |   |   |   |   | <b>13</b> |
| Squamous Cell Carcinoma In Situ, Two       |   | X |   |   |   |   |   |   | X | X |   |   | <b>4</b>  |
| Squamous Cell Carcinoma In Situ, Three     |   |   |   |   | X |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Carcinoma In Situ, Five      |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Papilloma, One               |   | X |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Squamous Cell Papilloma, Two               |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Papilloma, Three             |   |   |   |   |   | X |   |   |   |   |   |   | <b>3</b>  |
| Squamous Cell Papilloma, Four              |   |   |   |   |   |   |   |   |   |   | X |   | <b>6</b>  |
| Squamous Cell Papilloma, Five              |   |   |   |   | X |   |   |   |   |   |   |   | <b>2</b>  |
| Squamous Cell Papilloma, Greater Than Five | X |   | X | X |   |   | X | X | X | X |   |   | <b>19</b> |

**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 | 2 | 1 | 2 | 1 | 1 | 1 | 1 |                 |
|                                   | 0 | 0 | 0 | 7 | 1 | 9 | 0 | 9 | 9 | 9 | 7 |                 |
|                                   | 0 | 6 | 0 | 7 | 5 | 7 | 8 | 3 | 1 | 3 | 8 |                 |
| .....                             |   |   |   |   |   |   |   |   |   |   |   |                 |
| <b>SKH-1 HAIRLESS MICE (NCTR)</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
| <b>MICE MALE</b>                  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |
|                                   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |
| ANIMAL ID                         | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 |                 |
| <b>.5% RP 13.7SSLM</b>            | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | <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 - 01  
 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: 16:29:37  
 First Dose M/F: 06/22/03 / NA  
 Lab: NCTR

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                   | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                                   | 2 | 5 | 2 | 7 | 2 | 0 | 1 | 2 | 2 | 4 | 4 | 9 | 2 | 4 | 4 | 4 | 0 | 9 | 4 | 3 | 2 | 3 | 4 | 0 |
|                                   | 0 | 0 | 8 | 1 | 8 | 4 | 3 | 1 | 9 | 3 | 8 | 7 | 2 | 1 | 8 | 1 | 6 | 9 | 1 | 4 | 9 | 4 | 1 | 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 MALE</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 |
| ANIMAL ID                         | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| <b>NOCREAMM20.55SSL</b>           | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |

males  
(cont...)

**ALIMENTARY SYSTEM**  
 NONE

**CARDIOVASCULAR SYSTEM**  
 NONE

**ENDOCRINE SYSTEM**  
 NONE

**GENERAL BODY SYSTEM**  
 NONE

**GENITAL SYSTEM**  
 NONE

**HEMATOPOIETIC SYSTEM**  
 NONE

**INTEGUMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin, Control             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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 |          |
|                            | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 |          |
|                            | 3 | 0 | 0 | 3 | 9 | 1 | 1 | 7 | 0 | 9 | 0 |          |
|                            | 4 | 8 | 0 | 4 | 2 | 5 | 5 | 0 | 1 | 3 | 1 |          |
| .....                      |   |   |   |   |   |   |   |   |   |   |   |          |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
| MICE MALE                  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |          |
|                            | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |          |
| ANIMAL ID                  | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |          |
| NOCREAMM20.55SSL           | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | * TOTALS |

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Skin, Control             | + | + | + | + | + | + | + | + | + | + | + | 36 |
| 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 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2               |
|                                   | 3 | 0 | 0 | 3 | 9 | 1 | 1 | 7 | 0 | 9 | 0               |
|                                   | 4 | 8 | 0 | 4 | 2 | 5 | 5 | 0 | 1 | 3 | 1               |
| .....                             |   |   |   |   |   |   |   |   |   |   |                 |
| <b>SKH-1 HAIRLESS MICE (NCTR)</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |
| <b>MICE MALE</b>                  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7               |
|                                   | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9               |
| ANIMAL ID                         | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2               |
| <b>NOCREAMM20.55SSL</b>           | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8               |
|                                   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

|  |   |   |   |   |   |   |   |   |   |   |  |          |
|--|---|---|---|---|---|---|---|---|---|---|--|----------|
| Squamous Cell Carcinoma, One                       |   |   | X | X |   |   |   |   | X |   |  | <b>6</b> |
| Squamous Cell Carcinoma, Two                       |   | X |   |   |   |   |   |   |   |   |  | <b>8</b> |
| Squamous Cell Carcinoma, Three                     |   |   |   |   | X |   |   |   | X |   |  | <b>4</b> |
| Squamous Cell Carcinoma, Four                      |   |   |   |   |   |   |   |   |   | X |  | <b>5</b> |
| Squamous Cell Carcinoma, Five                      |   |   |   |   |   | X |   |   |   |   |  | <b>3</b> |
| Squamous Cell Carcinoma, Greater Than Five         |   |   |   |   |   |   | X |   |   |   |  | <b>2</b> |
| Squamous Cell Carcinoma In Situ, One               |   |   |   | X |   |   |   |   |   |   |  | <b>9</b> |
| Squamous Cell Carcinoma In Situ, Two               |   |   |   |   |   |   |   |   |   |   |  | <b>3</b> |
| Squamous Cell Carcinoma In Situ, Three             |   | X |   |   |   |   |   |   | X |   |  | <b>5</b> |
| Squamous Cell Carcinoma In Situ, Four              |   |   |   |   |   |   |   |   |   |   |  | <b>1</b> |
| Squamous Cell Carcinoma In Situ, Five              |   |   | X |   | X |   |   |   |   |   |  | <b>4</b> |
| Squamous Cell Carcinoma In Situ, Greater Than Five |   |   |   |   |   | X |   |   | X |   |  | <b>3</b> |
| Squamous Cell Papilloma, One                       | X |   |   |   |   |   |   |   |   | X |  | <b>7</b> |
| Squamous Cell Papilloma, Two                       |   |   |   |   |   | X |   |   |   |   |  | <b>3</b> |
| Squamous Cell Papilloma, Three                     |   |   |   |   | X |   |   | X | X |   |  | <b>7</b> |
| Squamous Cell Papilloma, Four                      |   |   |   |   |   |   |   |   |   |   |  | <b>2</b> |
| Squamous Cell Papilloma, Five                      |   |   |   | X |   |   |   |   |   |   |  | <b>1</b> |
| Squamous Cell Papilloma, Greater Than Five         |   | X |   |   |   |   |   |   |   |   |  | <b>2</b> |

**MUSCULOSKELETAL 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 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2               |
|                            | 3 | 0 | 0 | 3 | 9 | 1 | 1 | 7 | 0 | 9 | 0               |
|                            | 4 | 8 | 0 | 4 | 2 | 5 | 5 | 0 | 1 | 3 | 1               |
| .....                      |   |   |   |   |   |   |   |   |   |   |                 |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |
| MICE MALE                  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7               |
|                            | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9               |
| ANIMAL ID                  | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2               |
| NOCREAMM20.55SSL           | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8               |
|                            |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

+ + + + + + + + + + +

36

\*\*\* END OF MALE DATA \*\*\*

\*\*\* 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