

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

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	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		
MICE MALE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
NO CREAMNO SSL-M	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7		
	5	6	7	8	9	0	2	3	4	5	6	7	8	9	0	1	2	4	5	6	7	8	9	0	1		

**males
(cont...)**

ALIMENTARY SYSTEM
 NONE

CARDIOVASCULAR SYSTEM
 NONE

ENDOCRINE SYSTEM
 NONE

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM
 NONE

HEMATOPOIETIC SYSTEM
 NONE

INTEGUMENTARY SYSTEM

Skin, Control	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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
	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3
	3	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	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) MICE MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	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

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
l .. 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
	* TOTALS								

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | |
| PH 7.0 NO SSL-M | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 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
l .. Insufficient tissue

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

| | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 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 |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| PH 7.0 NO SSL-M | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| | | | | | | | | | | | * TOTALS |

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

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 | |
| | | | | | | | | | | | | |
| 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 |
| 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 | | |
| | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 2 |
| | 8 | 8 | 6 | 6 | 6 | 6 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | |
| | 3 | 9 | 8 | 8 | 8 | 8 | 2 | 0 | 8 | 8 | 8 | 8 | 2 | 8 | 8 | 8 | 8 | 8 | 8 | 2 | 8 | 8 | 8 | 3 | |

SKH-1 HAIRLESS MICE (NCTR)
MICE MALE

ANIMAL ID

NO CREAM6.75SSLM

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

males
(cont...)

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

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

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

Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 2 | |
| | 8 | 8 | 6 | 6 | 6 | 6 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | |
| | 3 | 9 | 8 | 8 | 8 | 8 | 2 | 0 | 8 | 8 | 8 | 8 | 2 | 8 | 8 | 8 | 8 | 8 | 8 | 2 | 8 | 8 | 8 | 3 | |
| SKH-1 HAIRLESS MICE (NCTR)
MICE MALE
NO CREAM6.75SSLM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | ANIMAL ID | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | |
| | 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...) | | | | | | | | | | | | | | | | | | | | | | | | |

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

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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

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

TDMS No. 20117 - 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 | 6 | 8 |
| | 3 | 9 | 8 | 8 | 8 | 8 | 2 | 0 | 8 | 8 | 8 | 8 | 8 | 2 | 8 | 8 | 8 | 8 | 8 | 8 | 2 | 8 | 8 | 8 | 3 |
| SKH-1 HAIRLESS MICE (NCTR)
MICE MALE
ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 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 |
| | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| NO CREAM6.75SSLM | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

males
(cont...)

SYSTEMIC LESIONS

Multiple Organ

+ +

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

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

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| DAY ON TEST | 2 | 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

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 | 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 |

| | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | 35 |
| Squamous Cell Carcinoma, One | | | | | | | X | | | | | 2 |
| Squamous Cell Carcinoma In Situ, One | | | | | | | | X | | | | 1 |
| Squamous Cell Papilloma, One | | | | | X | | | | | | | 4 |
| Squamous Cell Papilloma, Three | | | | | | X | | | | | | 1 |
| Squamous Cell Papilloma, Five | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with 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 | Animals | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| | 1 | 8 | 6 | 9 | 2 | 7 | 2 | 5 | 9 | 6 | 5 | 1 | 7 | 8 | 2 | 9 | 2 | 6 | 2 | 4 | 1 | 3 | 7 | 7 |
| | 7 | 3 | 1 | 1 | 7 | 7 | 3 | 4 | 2 | 3 | 4 | 3 | 7 | 1 | 0 | 9 | 9 | 8 | 2 | 9 | 6 | 5 | 1 | 6 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| PH 7.0 6.75SSLM | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

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

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

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|---|---|---|--|---|---|---|--|---|---|--|---|---|---|---|---|---|--|--|---|---|---|
| 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
- l .. Insufficient tissue

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DAY ON TEST | 3 | 2 | 2 | 2 | 3 | 2 | 0 | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 2 | 3 | 2 | 2 | 0 | 2 | 2 | 2 | 2 |
| | 1 | 8 | 6 | 9 | 2 | 7 | 2 | 5 | 9 | 6 | 5 | 1 | 7 | 8 | 2 | 9 | 2 | 6 | 2 | 4 | 1 | 3 | 7 | 7 | 6 |
| | 7 | 3 | 1 | 1 | 7 | 7 | 3 | 4 | 2 | 3 | 4 | 3 | 7 | 1 | 0 | 9 | 9 | 8 | 2 | 9 | 6 | 5 | 1 | 6 | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| PH 7.0 6.75SSLM | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

males
(cont...)

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

+ +

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

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

| | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 2 | 2 | 2 | 2 | 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 |
| | | | | | | | | | | | |
| 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 |

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

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

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

males (cont...)

ALIMENTARY SYSTEM
 NONE

CARDIOVASCULAR SYSTEM
 NONE

ENDOCRINE SYSTEM
 NONE

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM
 NONE

HEMATOPOIETIC SYSTEM
 NONE

INTEGUMENTARY SYSTEM

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

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

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

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

males
(cont...)

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

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

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

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

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

males (cont...)

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

+ +

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

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

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

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

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

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

males (cont...)

Basal Cell Adenoma

Squamous Cell Carcinoma, One X

Squamous Cell Carcinoma, Two X

Squamous Cell Carcinoma In Situ, One X

Squamous Cell Carcinoma In Situ, Two X

Squamous Cell Papilloma, One X

Squamous Cell Papilloma, Two X

Squamous Cell Papilloma, Three X

Squamous Cell Papilloma, Four X

Squamous Cell Papilloma, Five X

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

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

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

NONE

URINARY SYSTEM

NONE

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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| 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 | | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| ANIMAL ID | 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 | | |
| | 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

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

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

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

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

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

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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Squamous Cell Papilloma | | | | | | | | | | X | | | | | | | | | | | | | | | | |

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

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

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |
| | 2 | 3 | 5 | 7 | 7 | 5 | 5 | 4 | 7 | 5 | 9 | 3 | 4 | 4 | 0 | 5 | 7 | 5 | 9 | 4 | 9 | 6 | 9 | 7 | 7 | |
| | 6 | 4 | 0 | 1 | 1 | 0 | 5 | 3 | 6 | 4 | 8 | 7 | 1 | 1 | 2 | 7 | 7 | 7 | 2 | 0 | 9 | 2 | 2 | 0 | 3 | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| PH 7.0 13.7SSLM | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| ANIMAL ID | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | |
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Keratoacanthoma, One | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Squamous Cell Carcinoma, One | | | | X | | | X | | | | | | | | | X | X | | X | X | | X | X | | | |
| Squamous Cell Carcinoma, Two | | | | | | | | | | | X | | | | | | | | | | | X | | | | |
| 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 | | | | | X | X | X | | X | | | X | |
| Squamous Cell Carcinoma In Situ, Two | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Squamous Cell Carcinoma In Situ, Three | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma In Situ, Four | | | | | | | | | | | | | | X | | | | | | | X | | | | | |
| Squamous Cell Carcinoma In Situ, Five | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Squamous Cell Carcinoma In Situ, Greater Than Five | | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma, One | | | | | | | | X | X | | | | | | | | | | | | | | | | X | |
| Squamous Cell Papilloma, Two | | | X | | | | | | | | | | | | | | X | | | | | X | | X | | |
| Squamous Cell Papilloma, Three | | | | | X | | | | | | | | | | | | | | | | X | | | | | |
| Squamous Cell Papilloma, Four | | | | | | | | | | | | | | | | X | X | | | | | | | | | |
| Squamous Cell Papilloma, Five | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Squamous Cell Papilloma, Greater Than Five | X | | | X | X | | | | X | X | | | | | | | | | | | X | | | | | |

males (cont...)

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

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

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

ANIMAL ID

PH 7.0 13.7SSLM

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

males
(cont...)

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

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Skin, Control | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Squamous Cell Papilloma | | | | | | | | | | | | 1 |

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

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

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

| | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Skin, Site Of Application | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Keratoacanthoma, One | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma, One | | | X | | | | | | | X | | 10 |
| Squamous Cell Carcinoma, Two | | | | | | | | | | | | 2 |
| Squamous Cell Carcinoma, Three | | X | | | | | | | | | | 6 |
| Squamous Cell Carcinoma, Five | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma In Situ, One | | | | | | X | X | | | | | 12 |
| Squamous Cell Carcinoma In Situ, Two | | | | | | | | X | | X | | 3 |
| Squamous Cell Carcinoma In Situ, Three | | | X | | | | | | | | | 2 |
| Squamous Cell Carcinoma In Situ, Four | | | | | | | | | X | | | 3 |
| Squamous Cell Carcinoma In Situ, Five | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma In Situ, Greater Than Five | | | | | | | | | | | | 1 |
| Squamous Cell Papilloma, One | | | | | | | | | | | | 3 |
| Squamous Cell Papilloma, Two | X | | | | | | X | | X | X | | 8 |
| Squamous Cell Papilloma, Three | | X | | | | | | | | | | 3 |
| Squamous Cell Papilloma, Four | | | | | | | | | | | | 2 |
| Squamous Cell Papilloma, Five | | | | | X | | | | | | | 2 |
| Squamous Cell Papilloma, Greater Than Five | | | X | | | X | | X | | X | | 10 |

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

NERVOUS SYSTEM
 NONE

RESPIRATORY SYSTEM
 NONE

SPECIAL SENSES SYSTEM
 NONE

URINARY SYSTEM
 NONE

SYSTEMIC LESIONS

Multiple Organ

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

36

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

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

TDMS No. 20117 - 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 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 |
| | 0 | 1 | 2 | 0 | 9 | 9 | 3 | 2 | 1 | 2 | 1 | 8 | 8 | 2 | 1 | 8 | 5 | 1 | 1 | 1 | 7 | 1 | 7 | 2 | 6 |
| | 5 | 3 | 3 | 5 | 2 | 2 | 6 | 1 | 6 | 1 | 6 | 5 | 7 | 0 | 4 | 7 | 0 | 4 | 3 | 3 | 1 | 3 | 1 | 2 | 4 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SKH-1 HAIRLESS MICE (NCTR)
MICE MALE
.1% RP 13.7SSLM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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

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 | Animals | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|-----------------------------------|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 |
| | 0 | 1 | 2 | 0 | 9 | 9 | 3 | 2 | 1 | 2 | 1 | 8 | 8 | 2 | 1 | 8 | 5 | 1 | 1 | 1 | 7 | 1 | 7 | 2 | 6 |
| | 5 | 3 | 3 | 5 | 2 | 2 | 6 | 1 | 6 | 1 | 6 | 5 | 7 | 0 | 4 | 7 | 0 | 4 | 3 | 3 | 1 | 3 | 1 | 2 | 4 |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| .1% RP 13.7SSLM | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Keratoacanthoma, One | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | 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 | | | 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 | X |

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

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

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

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

males (cont...)

RESPIRATORY SYSTEM
NONE

SPECIAL SENSES SYSTEM
NONE

URINARY SYSTEM
NONE

SYSTEMIC LESIONS

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

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

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 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

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

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 |

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + + + +

36

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

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

TDMS No. 20117 - 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 | | |
| DAY ON TEST | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | | | |
| | 6 | 0 | 6 | 6 | 0 | 6 | 5 | 9 | 2 | 9 | 9 | 8 | 7 | 8 | 8 | 7 | 9 | 9 | 1 | 8 | 8 | 8 | 7 | 2 | 7 | | |
| | 3 | 4 | 3 | 4 | 4 | 7 | 6 | 7 | 1 | 7 | 7 | 5 | 8 | 5 | 5 | 8 | 0 | 0 | 3 | 4 | 3 | 8 | 1 | 2 | 6 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| .5% RP 13.7SSLM | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | |
| | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | | |

males
(cont...)

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

| SKH-1 HAIRLESS MICE (NCTR)
MICE MALE
ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | 7 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | 7 |
| .5% RP 13.7SSLM | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | | 7 |
| | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | |

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

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

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

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

TDMS No. 20117 - 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 | 0 | 0 |
| DAY ON TEST | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 |
| | 6 | 0 | 6 | 6 | 0 | 6 | 5 | 9 | 2 | 9 | 9 | 8 | 7 | 8 | 8 | 7 | 9 | 9 | 1 | 8 | 8 | 8 | 7 | 2 | 7 | 7 | 7 | 6 |
| | 3 | 4 | 3 | 4 | 4 | 7 | 6 | 7 | 1 | 7 | 7 | 5 | 8 | 5 | 5 | 8 | 0 | 0 | 3 | 4 | 3 | 8 | 1 | 2 | 6 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| .5% RP 13.7SSLM | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | | | |

males
(cont...)

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

.....
 +

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

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

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

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

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

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

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

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

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

36

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

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 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 |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ANIMAL ID | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| NOCREAMM20.55SSL | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |

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

TDMS No. 20117 - 01

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 06/29/2009

Test Type: 1-YEAR

All-trans-retinyl palmitate

Time Report Requested: 16:29:37

Route: SKIN APPLICATION

CAS Number: 79-81-2

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

Species/Strain: MICE/SKH-1/NCTR

Lab: NCTR

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|--|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| 2 | 5 | 2 | 7 | 2 | 0 | 1 | 2 | 2 | 4 | 4 | 9 | 2 | 4 | 4 | 4 | 0 | 9 | 4 | 3 | 2 | 3 | 4 | 0 | 2 | | | |
| 0 | 0 | 8 | 1 | 8 | 4 | 3 | 1 | 9 | 3 | 8 | 7 | 2 | 1 | 8 | 1 | 6 | 9 | 1 | 4 | 9 | 4 | 1 | 7 | 7 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SKH-1 HAIRLESS MICE (NCTR) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| MICE MALE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| NOCREAMM20.55SSL | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |
| Squamous Cell Carcinoma, One | | | | | | | | | | | | | | X | | | | | X | | | | | | X | | |
| Squamous Cell Carcinoma, Two | | X | | | | | | | | | X | | | X | X | | | | X | X | | | X | | | | |
| Squamous Cell Carcinoma, Three | | | | X | | X | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma, Four | X | | | | | | | | | X | | | X | | | | | | | | X | | | | | | |
| Squamous Cell Carcinoma, Five | | | | | | | X | | | | | | | | | | | | | | | | | X | | | |
| Squamous Cell Carcinoma, Greater Than Five | | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma In Situ, Four | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma In Situ, Five | | | | | | | | X | | | | | | | | | | | | | X | | | | | | |
| Squamous Cell Carcinoma In Situ, Greater Than Five | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Squamous Cell Papilloma, One | | X | | X | | | | | X | | | | | | | | | | | X | | X | | | | | |
| Squamous Cell Papilloma, Two | | | | | | | | | | | | | | X | | | | | | | | | X | | | | |
| Squamous Cell Papilloma, Three | | | X | | | | | X | | | | | | | | | | | | | X | | | X | | | |
| Squamous Cell Papilloma, Four | | | | | | | | | | X | | | | | | X | | | | | | | | | | | |
| Squamous Cell Papilloma, Five | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Squamous Cell Papilloma, Greater Than Five | | | | | | | X | | | | | | | | | | | | | | | | | | | | |

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

males (cont...)

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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

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

| | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 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 |
| | | | | | | | | | | | |
| 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 |

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

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 |
| | | | | | | | | | | | * TOTALS |

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