TDMS No. 20117 - 02

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH

AVERAGE SEVERITY GRADES[b] All-trans-retinyl palmitate CAS Number: 79-81-2 Date Report Requested: 06/29/2009

Time Report Requested: 16:32:02 First Dose M/F: NA / 06/22/03 Lab: NCTR

Test Type: 1-YEAR Route: SKIN APPLICATION Species/Strain: MICE/SKH-1/NCTR

C Number:	C20117
Lock Date:	12/01/2008
Cage Range:	ALL
Date Range:	ALL
Reasons For Removal:	ALL
Removal Date Range:	ALL
Treatment Groups:	Include ALL
Study Gender:	Female
TDMSE Version:	2.1.0

MS No. 20117 - 02 st Type: 1-YEAR pute: SKIN APPLICATION pecies/Strain: MICE/SKH-1/NCTR	P18: INCIDENCE RA	Date Report Requested: 06/29/2009 Time Report Requested: 16:32:02 First Dose M/F: NA / 06/22/03 Lab: NCTR				
SKH-1 HAIRLESS MICE (NCTR) MICE FEMALE	NO CREAMNO SSL-F	PH 7.0 NO SSL-F	2% RP NO SSL-F	.001% RANO SSL-F	NO CREAM6.75SSLF	PH 7.0 6.75SSLF
Disposition Summary						
Animals Initially in Study Early Deaths Accidently Killed	36	36	36	36	36	36
Moribund Sacrifice Natural Death Survivors	1	3	16 1	1	2 1	2
Moribund Sacrifice Terminal Sacrifice	1 34	3 28	10	1 29 5	30 3	24
Harvest Animals Examined Microscopically	36	2 36	19	5	3 36	10 36
ALIMENTARY SYSTEM						
None						
CARDIOVASCULAR SYSTEM						
None						
ENDOCRINE SYSTEM						
None						
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
None						
HEMATOPOIETIC SYSTEM						

5 No. 20117 - 02 Type: 1-YEAR e: SKIN APPLICATION ies/Strain: MICE/SKH-1/NCTR	P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] All-trans-retinyl palmitate CAS Number: 79-81-2					Date Report Requested: 06/29/2009 Time Report Requested: 16:32:02 First Dose M/F: NA / 06/22/03 Lab: NCTR	
SKH-1 HAIRLESS MICE (NCTR) MICE FEMALE	NO CREAMNO SSL-F	PH 7.0 NO SSL-F	2% RP NO SSL-F	.001% RANO SSL-F	NO CREAM6.75SSLF	PH 7.0 6.75SSL	
None							
ITEGUMENTARY SYSTEM							
Skin, Control	(36)	(36)	(0)	(0)	(36)	(36)	
Abscess	1 [3.0]				1 [4.0]		
Cyst Epithelial Inclusion Edema	2	4			4	6	
Hyperplasia, Squamous Atypical, Focal							
Hyperplasia, Squamous Ulcer	1 [2.0]	1 [3.0]				1 [4.0]	
Dermis, Inflammation, Suppurative		. [0:0]					
Dermis, Inflammation, Chronic Active Epidermis, Inflammation, Suppurative Epidermis, Necrosis	3 [3.0]	1 [3.0]			1 [4.0]	1 [3.0]	
Epidermis, Ulcer	1 [3.0]						
Skin, Site Of Application	(36)	(36)	(0)	(0)	(36)	(36)	
Abscess	1 [4.0]	1 [4.0]				1 [3.0]	
Cyst, Multiple	1						
Cyst Epithelial Inclusion	2				4	5	
Hyperplasia, Squamous Atypical, One, Focal					11	6	
Hyperplasia, Squamous Atypical, Two, Focal		1			1	5	
Hyperplasia, Squamous Atypical, Three, Focal					2	6	
Hyperplasia, Squamous Atypical, Four, Focal					1	3	
Hyperplasia, Squamous Atypical, Five, Focal					1	2	
Hyperplasia, Squamous Atypical, Greater Than Five, Focal						5	
Hyperplasia, Basal Cell						1 [2.0]	
Hyperplasia, Squamous	1 [1.0]	7 [1.1]			11 [1.3]	24 [1.8]	
Dermis, Inflammation, Chronic Active	2 [1.5]	2 [1.5]			1 [3.0]	15 [1.7]	
Epidermis, Inflammation, Suppurative						1 [1.0]	
Epidermis, Necrosis						2 [1.0]	
Epidermis, Ulcer Sebaceous Gland, Hyperplasia						1 [1.0]	

DMS No. 20117 - 02 est Type: 1-YEAR foute: SKIN APPLICATION pecies/Strain: MICE/SKH-1/NCTR	P18: INCIDENCE RA	ATES OF NON-NEOPLA AVERAGE SEV All-trans-re CAS Num	Date Report Requested: 06/29/200 Time Report Requested: 16:32:02 First Dose M/F: NA / 06/22/03 Lab: NCTR			
SKH-1 HAIRLESS MICE (NCTR) MICE FEMALE	NO CREAMNO SSL-F	PH 7.0 NO SSL-F	2% RP NO SSL-F	.001% RANO SSL-F	NO CREAM6.75SSLF	PH 7.0 6.75SSLF
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
None						
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
None						

DMS No. 20117 - 02 est Type: 1-YEAR oute: SKIN APPLICATION pecies/Strain: MICE/SKH-1/NCTR	P18: INCIDENCE RA	P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] All-trans-retinyl palmitate CAS Number: 79-81-2				
SKH-1 HAIRLESS MICE (NCTR) MICE FEMALE	.1% RP 6.75SSLF	.5% RP 6.75SSLF	1% RP 6.75SSLF	2% RP 6.75SSLF	.001% RA6.75SSLF	NO CREAM13.7SSL
Disposition Summary						
Animals Initially in Study Early Deaths Accidently Killed	36	36	36	36	36	36
Moribund Sacrifice Natural Death Survivors	1 1	1	1 1	3	1 1	3
Moribund Sacrifice Terminal Sacrifice Harvest Animals Examined Microscopically	4 30 36	35 36	34	33	2 32	1 32 36
ALIMENTARY SYSTEM						
CARDIOVASCULAR SYSTEM						
None						
ENDOCRINE SYSTEM						
None						
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
None						

DMS No. 20117 - 02 est Type: 1-YEAR oute: SKIN APPLICATION pecies/Strain: MICE/SKH-1/NCTR	P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] All-trans-retinyl palmitate CAS Number: 79-81-2					Date Report Requested: 06/29/2009 Time Report Requested: 16:32:02 First Dose M/F: NA / 06/22/03 Lab: NCTR		
SKH-1 HAIRLESS MICE (NCTR) MICE FEMALE	.1% RP 6.75SSLF	.5% RP 6.75SSLF	1% RP 6.75SSLF	2% RP 6.75SSLF	.001% RA6.75SSLF	NO CREAM13.7SSLF		
None								
INTEGUMENTARY SYSTEM								
Skin, Control Abscess	(36)	(36)	(0)	(0)	(0)	(36)		
Cyst Epithelial Inclusion Edema	3	1				1		
Hyperplasia, Squamous Atypical, Focal Hyperplasia, Squamous Ulcer	1	4 [1.5]				1 [1.0]		
Dermis, Inflammation, Suppurative Dermis, Inflammation, Chronic Active Epidermis, Inflammation, Suppurative Epidermis, Necrosis						1 [4.0] 1 [4.0]		
Epidermis, Ulcer Skin, Site Of Application Abscess	(36)	(36)	(0)	(0)	(0)	2 [4.0] (36)		
Cyst, Multiple	4	4				0		
Cyst Epithelial Inclusion Hyperplasia, Squamous Atypical, One, Focal	4 1	1 8				2 4		
Hyperplasia, Squamous Atypical, Two, Focal	4	3				4		
Hyperplasia, Squamous Atypical, Three, Focal	3	2				4		
Hyperplasia, Squamous Atypical, Four, Focal	6	2				5		
Hyperplasia, Squamous Atypical, Five, Focal	3	3				3		
Hyperplasia, Squamous Atypical, Greater Than Five, Focal Hyperplasia, Basal Cell	14 1 [3.0]	16				13		
Hyperplasia, Basal Cell Hyperplasia, Squamous Dermis, Inflammation, Chronic Active Epidermis, Inflammation, Suppurative Epidermis, Necrosis	32 [2.0] 28 [1.9] 2 [2.5] 4 [1.8]	36 [2.5] 36 [2.0] 7 [1.9] 7 [1.6]				28 [1.5] 12 [1.6] 1 [2.0] 2 [1.5]		
Epidermis, Ulcer Sebaceous Gland, Hyperplasia	3 [3.3] 1 [3.0]	9 [2.6]				1 [3.0]		

DMS No. 20117 - 02	P18: INCIDENCE RA	P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH				
est Type: 1-YEAR oute: SKIN APPLICATION oecies/Strain: MICE/SKH-1/NCTR		AVERAGE SEVERITY GRADES[b] All-trans-retinyl palmitate CAS Number: 79-81-2				
SKH-1 HAIRLESS MICE (NCTR) MICE FEMALE	.1% RP 6.75SSLF	.5% RP 6.75SSLF	1% RP 6.75SSLF	2% RP 6.75SSLF	.001% RA6.75SSLF	NO CREAM13.7SSLF
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
None						
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
None						

MS No. 20117 - 02 st Type: 1-YEAR ute: SKIN APPLICATION ecies/Strain: MICE/SKH-1/NCTR	P18: INCIDENCE RA	Date Report Requested: 06/29/2009 Time Report Requested: 16:32:02 First Dose M/F: NA / 06/22/03 Lab: NCTR				
SKH-1 HAIRLESS MICE (NCTR) MICE FEMALE	PH 7.0 13.7SSLF	.1% RP 13.7SSLF	.5% RP 13.7SSLF	1% RP 13.7SSLF	2% RP 13.7SSLF	.001% RA13.7SSLI
Disposition Summary						
Animals Initially in Study Early Deaths Accidently Killed	36	36	36	36	36 1	36
Moribund Sacrifice Natural Death Survivors	3 1	2	2 2		4	1
Moribund Sacrifice Terminal Sacrifice Harvest	32	34	32	36	30	35
Animals Examined Microscopically	36	36	36			
ALIMENTARY SYSTEM						
None						
CARDIOVASCULAR SYSTEM						
None						
ENDOCRINE SYSTEM						
None						
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
None						
HEMATOPOIETIC SYSTEM						

MS No. 20117 - 02 st Type: 1-YEAR pute: SKIN APPLICATION pecies/Strain: MICE/SKH-1/NCTR	P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] All-trans-retinyl palmitate CAS Number: 79-81-2				Date Report Requested: 06/29/2009 Time Report Requested: 16:32:02 First Dose M/F: NA / 06/22/03 Lab: NCTR		
SKH-1 HAIRLESS MICE (NCTR) MICE FEMALE	PH 7.0 13.7SSLF	.1% RP 13.7SSLF	.5% RP 13.7SSLF	1% RP 13.7SSLF	2% RP 13.7SSLF	.001% RA13.7SSLF	
None							
INTEGUMENTARY SYSTEM							
Skin, Control Abscess	(36)	(36)	(36)	(0)	(0)	(0)	
Cyst Epithelial Inclusion Edema	4	2	1 [4.0]				
Hyperplasia, Squamous Atypical, Focal Hyperplasia, Squamous Ulcer	1 1 [2.0]		6 [1.3]				
Dermis, Inflammation, Suppurative Dermis, Inflammation, Chronic Active		1 [3.0]	1 [3.0] 2 [2.0]				
Epidermis, Inflammation, Suppurative Epidermis, Necrosis Epidermis, Ulcer			1 [2.0]				
Skin, Site Of Application Abscess	(36)	(36)	(36)	(0)	(0)	(0)	
Cyst, Multiple	0	4					
Cyst Epithelial Inclusion Hyperplasia, Squamous Atypical, One, Focal	9 5	1	3				
Hyperplasia, Squamous Atypical, Two, Focal		1	3				
Hyperplasia, Squamous Atypical, Three, Focal	5	6	2				
Hyperplasia, Squamous Atypical, Four, Focal	2	4	4				
Hyperplasia, Squamous Atypical, Five, Focal	1	5	4				
Hyperplasia, Squamous Atypical, Greater Than Five, Focal Hyperplasia, Basal Cell	20	19	14				
Hyperplasia, Squamous	33 [1.9]	31 [2.5]	35 [2.9]				
Dermis, Inflammation, Chronic Active	18 [1.8]	31 [1.9]	33 [2.4]				
Epidermis, Inflammation, Suppurative	3 [2.0]	3 [3.7]	9 [2.3]				
Epidermis, Necrosis Epidermis, Ulcer Sebaceous Gland, Hyperplasia	3 [1.3] 2 [3.0]	5 [2.0] 3 [3.7]	14 [2.1] 6 [3.2]				

DMS No. 20117 - 02	P18: INCIDENCE RA	Date Report Requested: 06/29/200				
Test Type: 1-YEAR Route: SKIN APPLICATION Species/Strain: MICE/SKH-1/NCTR		AVERAGE SEVERITY GRADES[b] All-trans-retinyl palmitate CAS Number: 79-81-2				
SKH-1 HAIRLESS MICE (NCTR) MICE FEMALE	PH 7.0 13.7SSLF	.1% RP 13.7SSLF	.5% RP 13.7SSLF	1% RP 13.7SSLF	2% RP 13.7SSLF	.001% RA13.7SSLF
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
None						
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
None						

a - Number of animals examined microscopically at site and number of animals with lesion b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

MS No. 20117 - 02 st Type: 1-YEAR ute: SKIN APPLICATION ecies/Strain: MICE/SKH-1/NCTR	P18: INCIDENCE RAT	ES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] All-trans-retinyl palmitate CAS Number: 79-81-2	Date Report Requested: 06/29/20 Time Report Requested: 16:32:02 First Dose M/F: NA / 06/22/03 Lab: NCTR
SKH-1 HAIRLESS MICE (NCTR) MICE FEMALE	NOCREAMF20.55SSL	1% RP NO SSL-F	
Disposition Summary			
Animals Initially in Study Early Deaths Accidently Killed Moribund Sacrifice Natural Death Survivors	36	36 5 1	
Moribund Sacrifice Terminal Sacrifice Harvest Animals Examined Microscopically	36 36	1 9 20	
ALIMENTARY SYSTEM			
CARDIOVASCULAR SYSTEM			
None			
ENDOCRINE SYSTEM None			
GENERAL BODY SYSTEM			
GENITAL SYSTEM			

a - Number of animals examined microscopically at site and number of animals with lesion b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

DMS No. 20117 - 02 est Type: 1-YEAR pute: SKIN APPLICATION pecies/Strain: MICE/SKH-1/NCTR	P18: INCIDENCE RAT	ES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE AVERAGE SEVERITY GRADES[b] All-trans-retinyl palmitate CAS Number: 79-81-2	(a) WITH Date Report Requested: 06/29/200 Time Report Requested: 16:32:02 First Dose M/F: NA / 06/22/03 Lab: NCTR
SKH-1 HAIRLESS MICE (NCTR) MICE FEMALE	NOCREAMF20.55SSL	1% RP NO SSL-F	
None			
INTEGUMENTARY SYSTEM			
Skin, Control Abscess Cyst Epithelial Inclusion Edema Hyperplasia, Squamous Atypical, Focal	(36) 1 [4.0] 4	(0)	
Hyperplasia, Squamous Hyperplasia, Squamous Ulcer Dermis, Inflammation, Suppurative Dermis, Inflammation, Chronic Active Epidermis, Inflammation, Suppurative Epidermis, Necrosis Epidermis, Ulcer	1 [2.0]		
Skin, Site Of Application Abscess Cyst, Multiple	(36) 1 [3.0]	(0)	
Cyst Epithelial Inclusion Hyperplasia, Squamous Atypical, One, Focal	2 4		
Hyperplasia, Squamous Atypical, Two, Focal	9		
Hyperplasia, Squamous Atypical, Three, Focal	7		
Hyperplasia, Squamous Atypical, Four, Focal	7		
Hyperplasia, Squamous Atypical, Five, Focal	4		
Hyperplasia, Squamous Atypical, Greater Than Five, Focal Hyperplasia, Basal Cell	4		
Hyperplasia, Squamous Dermis, Inflammation, Chronic Active Epidermis, Inflammation, Suppurative Epidermis, Necrosis Epidermis, Ulcer Sebaceous Gland, Hyperplasia	28 [1.8] 21 [1.9] 3 [2.7] 1 [2.0] 4 [3.5]		

DMS No. 20117 - 02 Test Type: 1-YEAR Route: SKIN APPLICATION Species/Strain: MICE/SKH-1/NCTR	P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] All-trans-retinyl palmitate CAS Number: 79-81-2	Date Report Requested: 06/29/2009 Time Report Requested: 16:32:02 First Dose M/F: NA / 06/22/03 Lab: NCTR
SKH-1 HAIRLESS MICE (NCTR) MICE FEMALE	NOCREAMF20.55SSL 1% RP NO SSL-F	
MUSCULOSKELETAL SYSTEM		
NERVOUS SYSTEM None		
RESPIRATORY SYSTEM None		
SPECIAL SENSES SYSTEM None		
URINARY SYSTEM None		

*** END OF REPORT ***