Species/Strain: Mouse/B6C3F1

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 10/21/2014 AVERAGE SEVERITY GRADES[b]

Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)

CAS Number: INIT/PROM

Time Report Requested: 06:23:49

First Dose M/F: NA / NA

Lab: BAT

C Number: C61994A

Lock Date: 04/07/1992

Cage Range: ΑII

Date Range: ΑII

Reasons For Removal: ΑII

Removal Date Range: ΑII

Treatment Groups: ΑII

Study Gender: Both

PWG Approval Date 04/27/1994

Species/Strain: Mouse/B6C3F1

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 10/21/2014 AVERAGE SEVERITY GRADES[b]

Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)

CAS Number: INIT/PROM

Time Report Requested: 06:23:49

Lab: BAT

First Dose M/F: NA / NA

B6C3F1 Mouse MALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET
Disposition Summary						
Animals Initially In Study Early Deaths	30	30	30	30	30	30
Moribund Sacrifice Natural Death			1	2		12 2
Survivors Terminal Sacrifice Animals Examined Microscopically	30 30	30 30	29 30	28 30	30 30	16 30
ALIMENTARY SYSTEM None						
CARDIOVASCULAR SYSTEM None						
ENDOCRINE SYSTEM None						
GENERAL BODY SYSTEM None						
GENITAL SYSTEM None						
HEMATOPOIETIC SYSTEM None						
INTEGUMENTARY SYSTEM Skin	(30)	(28)	(11)	(6)	(0)	(0)
Inflammation, Chronic Active Skin, Control Acanthosis	(0)	(0)	(1) 1 [1.0]	1 [2.0] (0)	(20) 20 [1.7]	(10) 10 [1.3]

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)

Species/Strain: Mouse/B6C3F1

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] Date Report Requested: 10/21/2014 Time Report Requested: 06:23:49

Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)

CAS Number: INIT/PROM

Time Report Requested: 06:23:49

First Dose M/F: NA / NA

B6C3F1 Mouse MALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
Inflammation, Chronic Active					1 [2.0]	1 [1.0]
Ulcer						
Skin, SOA-Mass	(0)	(0)	(1)	(10)	(0)	(29)
Acanthosis				1 [2.0]		
Hyperplasia, Basal Cell						
Sebaceous Gl, Hyperplasia						
Skin, SOA-No Mass	(0)	(2)	(18)	(22)	(30)	(23)
Acanthosis		2 [1.5]	18 [1.1]	19 [1.2]	30 [2.2]	21 [2.3]
Hair Follicle, Cyst				5		2
Inflammation, Chronic Active			1 [2.0]	5 [2.4]	12 [1.9]	15 [2.3]
Subcut Tiss, Granuloma						1 [3.0]
Ulcer				4 [2.5]	2 [2.0]	9 [2.8]
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)

Species/Strain: Mouse/B6C3F1

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] Date Report Requested: 10/21/2014 Time Report Requested: 06:23:49

Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)

CAS Number: INIT/PROM

Time Report Requested: 06:23:49

First Dose M/F: NA / NA

а	b:	ВА	١T

B6C3F1 Mouse MALE	BPO 20 COMPLETE	MNNG 100/BPO 20	MNNG 500/BPO 20	MNNG1000/BPO 20	MNNG 100/TPA 5	MNNG1000/TPA
	BPO 20 COMPLETE	WINNG 100/BPO 20	WINING SUU/BPO 20	WINNG TOUU/BPO 20	WINNG TOU/TPA 5	WINING TOOU/TPA
Disposition Summary						
Animals Initially In Study	30	30	30	30	30	30
Early Deaths						
Moribund Sacrifice			1	2	1	14
Natural Death						
Survivors						
Terminal Sacrifice	30	30	29	28	29	16
Animals Examined Microscopically	30	30	30	30	30	30
ALIMENTARY SYSTEM						
None						
CARDIOVASCULAR SYSTEM						
None						
ENDOCRINE SYSTEM						
None						
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
None						
HEMATOPOIETIC SYSTEM						
None						
INTEGUMENTARY SYSTEM						
Skin	(6)	(8)	(2)	(3)	(1)	(0)
Inflammation, Chronic Active	(♥)	(0)	(-)	1 [1.0]	('/	(0)
Skin, Control	(12)	(6)	(3)	(3)	(7)	(9)
Acanthosis	12 [1.3]	6 [1.2]	3 [1.3]	3 [2.3]	7 [1.7]	9 [1.9]
Inflammation, Chronic Active	.= [0]	↓ [··-]	0 [0]	1 [1.0]	3 [1.0]	4 [1.8]

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)

Species/Strain: Mouse/B6C3F1

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 10/21/2014 AVERAGE SEVERITY GRADES[b] Time Report Requested: 06:23:49

Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)

CAS Number: INIT/PROM

Time Report Requested: 06:23:49

First Dose M/F: NA / NA

Lab: BAT

B6C3F1 Mouse MALE	BPO 20 COMPLETE	MNNG 100/BPO 20	MNNG 500/BPO 20	MNNG1000/BPO 20	MNNG 100/TPA 5	MNNG1000/TPA
Ulcer						1 [2.0]
Skin, SOA-Mass	(0)	(0)	(4)	(12)	(9)	(22)
Acanthosis			1 [4.0]	1 [3.0]	1 [2.0]	2 [3.0]
Hyperplasia, Basal Cell				1 [4.0]		
Sebaceous Gl, Hyperplasia				1 [2.0]		
Skin, SOA-No Mass	(24)	(22)	(27)	(26)	(29)	(28)
Acanthosis	24 [1.4]	22 [1.6]	27 [1.6]	25 [1.8]	29 [2.2]	28 [2.4]
Hair Follicle, Cyst		2	1	1		1
Inflammation, Chronic Active	12 [1.1]	9 [1.6]	9 [1.3]	19 [1.5]	20 [1.4]	20 [1.9]
Subcut Tiss, Granuloma						
Ulcer		3 [2.7]	1 [3.0]	3 [2.0]	1 [2.0]	4 [2.3]
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM None						
RESPIRATORY SYSTEM None				,		
SPECIAL SENSES SYSTEM None						
URINARY SYSTEM						
None						

END OF MALE DATA

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)

Experiment Number: 05117-04 Test Type: INIT/PROMOT

Species/Strain: Mouse/B6C3F1

Route: SKIN APPLICATION

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Date Report Requested: 10/21/2014
Time Report Requested: 06:23:49

Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)

CAS Number: INIT/PROM

Time Report Requested: 06:23:49

First Dose M/F: NA / NA

B6C3F1 Mouse FEMALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET
Disposition Summary		TOU/AGETORE	300/AGETONE			
Animals Initially In Study	30	30	30	30	30	30
Early Deaths						
Drowned						
Moribund Sacrifice				6		13
Natural Death				1		4
Survivors						
Terminal Sacrifice	30	30	30	23	30	13
Missing						
Animals Examined Microscopically	30	30	30	30	30	30
ALIMENTARY SYSTEM						
None						
CARDIOVASCULAR SYSTEM						
None						
ENDOCRINE SYSTEM						
None			,	,		,
GENERAL BODY SYSTEM						
None						
OFNITAL OVOTEM						
GENITAL SYSTEM None						
Notice						
HEMATOPOIETIC SYSTEM						
None						
INTEGUMENTARY SYSTEM						
Skin	(30)	(28)	(9)	(8)	(0)	(2)
Alopecia						1

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)

Species/Strain: Mouse/B6C3F1

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] Date Report Requested: 10/21/2014 Time Report Requested: 06:23:49

Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)

CAS Number: INIT/PROM

Time Report Requested: 06:23:49

First Dose M/F: NA / NA

B6C3F1 Mouse FEMALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
Inflammation, Chronic Active						1 [3.0]
Ulcer						1 [3.0]
Skin, Control	(0)	(0)	(0)	(2)	(23)	(10)
Acanthosis				2 [1.5]	23 [1.6]	10 [1.5]
Inflammation, Chronic Active					10 [1.8]	2 [1.5]
Ulcer						
Skin, SOA-Mass	(0)	(0)	(0)	(9)	(1)	(30)
Acanthosis					1 [2.0]	
Sebaceous GI, Hyperplasia						
Skin, SOA-No Mass	(0)	(2)	(21)	(19)	(30)	(26)
Acanthosis		2 [1.0]	20 [1.1]	18 [1.6]	30 [2.1]	25 [2.2]
Hair Follicle, Cyst				1		1
Inflammation, Chronic Active			6 [1.2]	13 [1.7]	27 [1.9]	17 [2.5]
Subcut Tiss, Fibrosis						1 [2.0]
Subcut Tiss, Infiltration Cellular, Mast Cell, Focal						
Subcut Tiss, Mineralization						
Ulcer				2 [3.5]	1 [2.0]	12 [3.1]
MUSCULOSKELETAL SYSTEM None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
None					,	
SPECIAL SENSES SYSTEM						
None						

URINARY 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)

Species/Strain: Mouse/B6C3F1

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 10/21/2014 AVERAGE SEVERITY GRADES[b]

Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)

CAS Number: INIT/PROM

Time Report Requested: 06:23:49

Lab: BAT

First Dose M/F: NA / NA

B6C3F1 Mouse FEMALE VEHICLE CONTROL MNNG MNNG MNNG1000/ACETON TPA 5 COMPLETE MNNG100/COMPLET 100/ACETONE **500/ACETONE** Ε Ε 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)

Experiment Number: 05117-04 Test Type: INIT/PROMOT

Species/Strain: Mouse/B6C3F1

Route: SKIN APPLICATION

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] Date Report Requested: 10/21/2014 Time Report Requested: 06:23:49

Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)

CAS Number: INIT/PROM

Time Report Requested: 06:23:49

First Dose M/F: NA / NA

B6C3F1 Mouse FEMALE	BPO 20 COMPLETE	MNNG 100/BPO 20	MNNG 500/BPO 20	MNNG1000/BPO 20	MNNG 100/TPA 5	MNNG1000/TPA 5
Disposition Summary						
Animals Initially In Study	30	30	30	30	30	30
Early Deaths						
Drowned			1			
Moribund Sacrifice	1		2	5		5
Natural Death						3
Survivors						•
Terminal Sacrifice	29	30	27	25	29	22
Missing	20	20	20	20	1	20
Animals Examined Microscopically	30	30	30	30	29	30
ALIMENTARY SYSTEM						
None						
CARDIOVASCULAR SYSTEM						
None						
ENDOCRINE SYSTEM						
None						
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
None						
HEMATOPOIETIC SYSTEM						
None						
INTEGUMENTARY SYSTEM						
Skin	(13)	(8)	(3)	(2)	(0)	(0)
Alopecia	(13)	(0)	(3)	(2)	(0)	(0)
Inflammation, Chronic Active						
illiamination, official / touve						

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)

Species/Strain: Mouse/B6C3F1

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] Date Report Requested: 10/21/2014 Time Report Requested: 06:23:49

Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)

CAS Number: INIT/PROM

Time Report Requested: 06:23:49

First Dose M/F: NA / NA

Lab: BAT

B6C3F1 Mouse FEMALE	BPO 20 COMPLETE	MNNG 100/BPO 20	MNNG 500/BPO 20	MNNG1000/BPO 20	MNNG 100/TPA 5	MNNG1000/TPA 5
Ulcer	1 [3.0]					
Skin, Control	(8)	(2)	(3)	(4)	(10)	(12)
Acanthosis	8 [1.1]	2 [1.0]	3 [1.7]	4 [1.0]	10 [1.1]	12 [1.8]
Inflammation, Chronic Active	1 [1.0]		1 [1.0]	1 [1.0]	10 [1.0]	8 [1.4]
Ulcer						1 [2.0]
Skin, SOA-Mass	(0)	(1)	(2)	(10)	(1)	(10)
Acanthosis			1 [2.0]			
Sebaceous GI, Hyperplasia						1 [3.0]
Skin, SOA-No Mass	(18)	(22)	(27)	(27)	(29)	(28)
Acanthosis	17 [1.4]	22 [1.2]	27 [1.9]	27 [1.9]	29 [2.0]	28 [2.3]
Hair Follicle, Cyst			1	1		
Inflammation, Chronic Active	15 [1.6]	17 [1.1]	20 [1.4]	23 [1.4]	29 [1.6]	24 [1.8]
Subcut Tiss, Fibrosis						
Subcut Tiss, Infiltration Cellular, Mast Cell, Focal			1 [2.0]			
Subcut Tiss, Mineralization						1 [3.0]
Ulcer	3 [3.0]		3 [2.3]	2 [2.5]		5 [2.4]
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)

Species/Strain: Mouse/B6C3F1

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 10/21/2014 AVERAGE SEVERITY GRADES[b]

Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)

CAS Number: INIT/PROM

Time Report Requested: 06:23:49

First Dose M/F: NA / NA

Lab: BAT

B6C3F1 Mouse FEMALE

BPO 20 COMPLETE MNNG 100/BPO 20

MNNG 500/BPO 20

MNNG1000/BPO 20

MNNG 100/TPA 5

MNNG1000/TPA 5

** END OF REPORT **

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)