

**Experiment Number:** 05117-04  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 06:25:27

**First Dose M/F:** NA / NA

**Lab:** BAT

**C Number:** C61994A  
**Lock Date:** 04/07/1992  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Both  
**PWG Approval Date:** 04/27/1994

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 First Dose M/F: NA / NA  
 Lab: BAT

B6C3F1 Mouse MALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
<b>Disposition Summary</b>						
Animals Initially In Study	30	30	30	30	30	30
Early Deaths						
Moribund Sacrifice			1	2		12
Natural Death						2
Survivors						
Terminal Sacrifice	30	30	29	28	30	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	(30)	(28)	(11)	(6)	(0)	(0)
Inflammation, Chronic Active				1 (17%)		
Skin, Control	(0)	(0)	(1)	(0)	(20)	(10)
Acanthosis			1 (100%)		20 (100%)	10 (100%)
Inflammation, Chronic Active					1 (5%)	1 (10%)

a - Number of animals examined microscopically at site and number of animals with lesion

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**Lab:** BAT

B6C3F1 Mouse MALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
Ulcer						
Skin, SOA-Mass	(0)	(0)	(1)	(10)	(0)	(29)
Acanthosis				1 (10%)		
Hyperplasia, Basal Cell						
Sebaceous Gl, Hyperplasia						
Skin, SOA-No Mass	(0)	(2)	(18)	(22)	(30)	(23)
Acanthosis		2 (100%)	18 (100%)	19 (86%)	30 (100%)	21 (91%)
Hair Follicle, Cyst				5 (23%)		2 (9%)
Inflammation, Chronic Active			1 (6%)	5 (23%)	12 (40%)	15 (65%)
Subcut Tiss, Granuloma						1 (4%)
Ulcer				4 (18%)	2 (7%)	9 (39%)
<b>MUSCULOSKELETAL SYSTEM</b>						
None						
<b>NERVOUS SYSTEM</b>						
None						
<b>RESPIRATORY SYSTEM</b>						
None						
<b>SPECIAL SENSES SYSTEM</b>						
None						
<b>URINARY SYSTEM</b>						
None						

a - Number of animals examined microscopically at site and number of animals with lesion

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 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 5
<b>Disposition Summary</b>						
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				1 (33%)		
Skin, Control	(12)	(6)	(3)	(3)	(7)	(9)
Acanthosis	12 (100%)	6 (100%)	3 (100%)	3 (100%)	7 (100%)	9 (100%)
Inflammation, Chronic Active				1 (33%)	3 (43%)	4 (44%)

a - Number of animals examined microscopically at site and number of animals with lesion

**Experiment Number:** 051117-04  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 06:25:27  
**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 5
Ulcer						1 (11%)
Skin, SOA-Mass	(0)	(0)	(4)	(12)	(9)	(22)
Acanthosis			1 (25%)	1 (8%)	1 (11%)	2 (9%)
Hyperplasia, Basal Cell				1 (8%)		
Sebaceous GI, Hyperplasia				1 (8%)		
Skin, SOA-No Mass	(24)	(22)	(27)	(26)	(29)	(28)
Acanthosis	24 (100%)	22 (100%)	27 (100%)	25 (96%)	29 (100%)	28 (100%)
Hair Follicle, Cyst		2 (9%)	1 (4%)	1 (4%)		1 (4%)
Inflammation, Chronic Active	12 (50%)	9 (41%)	9 (33%)	19 (73%)	20 (69%)	20 (71%)
Subcut Tiss, Granuloma						
Ulcer		3 (14%)	1 (4%)	3 (12%)	1 (3%)	4 (14%)
<b>MUSCULOSKELETAL SYSTEM</b>						
None						
<b>NERVOUS SYSTEM</b>						
None						
<b>RESPIRATORY SYSTEM</b>						
None						
<b>SPECIAL SENSES SYSTEM</b>						
None						
<b>URINARY SYSTEM</b>						
None						

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

a - Number of animals examined microscopically at site and number of animals with lesion

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**Lab:** BAT

B6C3F1 Mouse FEMALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
<b>Disposition Summary</b>						
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						
GENITAL SYSTEM						
None						
HEMATOPOIETIC SYSTEM						
None						
INTEGUMENTARY SYSTEM						
Skin	(30)	(28)	(9)	(8)	(0)	(2)
Alopecia						1 (50%)
Inflammation, Chronic Active						1 (50%)

a - Number of animals examined microscopically at site and number of animals with lesion

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**Lab:** BAT

B6C3F1 Mouse FEMALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
Ulcer						1 (50%)
Skin, Control	(0)	(0)	(0)	(2)	(23)	(10)
Acanthosis				2 (100%)	23 (100%)	10 (100%)
Inflammation, Chronic Active					10 (43%)	2 (20%)
Ulcer						
Skin, SOA-Mass	(0)	(0)	(0)	(9)	(1)	(30)
Acanthosis					1 (100%)	
Sebaceous GI, Hyperplasia						
Skin, SOA-No Mass	(0)	(2)	(21)	(19)	(30)	(26)
Acanthosis		2 (100%)	20 (95%)	18 (95%)	30 (100%)	25 (96%)
Hair Follicle, Cyst				1 (5%)		1 (4%)
Inflammation, Chronic Active			6 (29%)	13 (68%)	27 (90%)	17 (65%)
Subcut Tiss, Fibrosis						1 (4%)
Subcut Tiss, Infiltration Cellular, Mast Cell, Focal						
Subcut Tiss, Mineralization						
Ulcer				2 (11%)	1 (3%)	12 (46%)
<b>MUSCULOSKELETAL SYSTEM</b>						
None						
<b>NERVOUS SYSTEM</b>						
None						
<b>RESPIRATORY SYSTEM</b>						
None						
<b>SPECIAL SENSES SYSTEM</b>						
None						
<b>URINARY SYSTEM</b>						
None						

a - Number of animals examined microscopically at site and number of animals with lesion

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**B6C3F1 Mouse FEMALE**

**VEHICLE CONTROL**

**MNNG  
100/ACETONE**

**MNNG  
500/ACETONE**

**MNNG1000/ACETON  
E**

**TPA 5 COMPLETE**

**MNNG100/COMPLET  
E**

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**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
<b>Disposition Summary</b>						
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					1	
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						
Inflammation, Chronic Active						

a - Number of animals examined microscopically at site and number of animals with lesion

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**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 (8%)					
Skin, Control	(8)	(2)	(3)	(4)	(10)	(12)
Acanthosis	8 (100%)	2 (100%)	3 (100%)	4 (100%)	10 (100%)	12 (100%)
Inflammation, Chronic Active	1 (13%)		1 (33%)	1 (25%)	10 (100%)	8 (67%)
Ulcer						1 (8%)
Skin, SOA-Mass	(0)	(1)	(2)	(10)	(1)	(10)
Acanthosis			1 (50%)			
Sebaceous Gl, Hyperplasia						1 (10%)
Skin, SOA-No Mass	(18)	(22)	(27)	(27)	(29)	(28)
Acanthosis	17 (94%)	22 (100%)	27 (100%)	27 (100%)	29 (100%)	28 (100%)
Hair Follicle, Cyst			1 (4%)	1 (4%)		
Inflammation, Chronic Active	15 (83%)	17 (77%)	20 (74%)	23 (85%)	29 (100%)	24 (86%)
Subcut Tiss, Fibrosis						
Subcut Tiss, Infiltration Cellular, Mast Cell, Focal			1 (4%)			
Subcut Tiss, Mineralization						1 (4%)
Ulcer	3 (17%)		3 (11%)	2 (7%)		5 (18%)
<b>MUSCULOSKELETAL SYSTEM</b>						
None						
<b>NERVOUS SYSTEM</b>						
None						
<b>RESPIRATORY SYSTEM</b>						
None						
<b>SPECIAL SENSES SYSTEM</b>						
None						
<b>URINARY SYSTEM</b>						
None						

a - Number of animals examined microscopically at site and number of animals with lesion

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