

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

**P02: INCIDENCE RATES OF NEOPLASMS 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:** 06:25:22  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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

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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
<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)
Skin, Control	(0)	(0)	(1)	(0)	(20)	(10)
Skin, SOA-Mass	(0)	(0)	(1)	(10)	(0)	(29)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

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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
Keratoacanthoma				1 (10%)		
Squamous Cell Carcinoma				3 (30%)		16 (55%)
Squamous Cell Carcinoma, Multiple						13 (45%)
Squamous Cell Papilloma				1 (10%)		2 (7%)
Squamous Cell Papilloma, Multiple						
Subcut Tiss, Fibrosarcoma				1 (10%)		
Subcut Tiss, Hemangiosarcoma						
Subcut Tiss, Sarcoma			1 (100%)	3 (30%)		
Subcut Tiss, Sarcoma, Multiple						
Subcut Tiss, Squamous Cell Carcinoma						1 (3%)
Trichoepithelioma						
Skin, SOA-No Mass	(0)	(2)	(18)	(22)	(30)	(23)
Subcut Tiss, Lymphangioma						
Subcut Tiss, Lymphangiosarcoma						
Subcut Tiss, Sarcoma				1 (5%)		
<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

b - Primary tumors: all tumors except metastatic tumors

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**Lab:** BAT

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**B6C3F1 Mouse MALE**

**VEHICLE CONTROL**

**MNNG  
100/ACETONE**

**MNNG  
500/ACETONE**

**MNNG1000/ACETON  
E**

**TPA 5 COMPLETE**

**MNNG100/COMPLET  
E**

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\* Number of animals with any tissue examined microscopically

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**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>						
<b>Animals Initially In Study</b>	30	30	30	30	30	30
<b>Early Deaths</b>						
<b>Moribund Sacrifice</b>			1	2	1	14
<b>Natural Death</b>						
<b>Survivors</b>						
<b>Terminal Sacrifice</b>	30	30	29	28	29	16
<b>Animals Examined Microscopically</b>	30	30	30	30	30	30
<b>ALIMENTARY SYSTEM</b>						
None						
<b>CARDIOVASCULAR SYSTEM</b>						
None						
<b>ENDOCRINE SYSTEM</b>						
None						
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
None						
<b>HEMATOPOIETIC SYSTEM</b>						
None						
<b>INTEGUMENTARY SYSTEM</b>						
Skin	(6)	(8)	(2)	(3)	(1)	(0)
Skin, Control	(12)	(6)	(3)	(3)	(7)	(9)
Skin, SOA-Mass	(0)	(0)	(4)	(12)	(9)	(22)
Keratoacanthoma						

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

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\* Number of animals with any tissue examined microscopically

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**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
Squamous Cell Carcinoma			2 (50%)	1 (8%)		4 (18%)
Squamous Cell Carcinoma, Multiple				1 (8%)		1 (5%)
Squamous Cell Papilloma				3 (25%)	5 (56%)	3 (14%)
Squamous Cell Papilloma, Multiple				1 (8%)	2 (22%)	3 (14%)
Subcut Tiss, Fibrosarcoma						
Subcut Tiss, Hemangiosarcoma			1 (25%)			
Subcut Tiss, Sarcoma			1 (25%)	3 (25%)	1 (11%)	10 (45%)
Subcut Tiss, Sarcoma, Multiple				1 (8%)		2 (9%)
Subcut Tiss, Squamous Cell Carcinoma						
Trichoepithelioma						2 (9%)
Skin, SOA-No Mass	(24)	(22)	(27)	(26)	(29)	(28)
Subcut Tiss, Lymphangioma						1 (4%)
Subcut Tiss, Lymphangiosarcoma						1 (4%)
Subcut Tiss, Sarcoma						
<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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

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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
<b>Tumor Summary for MALE</b>						
<b>Total Animals with Primary Neoplasms (b)</b>			1	10		29
<b>Total Primary Neoplasms</b>			1	10		32
<b>Total Animals with Benign Neoplasms</b>				2		2
<b>Total Benign Neoplasms</b>				2		2
<b>Total Animals with Malignant Neoplasms</b>			1	8		29
<b>Total Malignant Neoplasms</b>			1	8		30
<b>Total Animals with Metastatic Neoplasms</b>						
<b>Total Metastatic Neoplasms</b>						
<b>Total Animals with Malignant Neoplasms Uncertain Primary Site</b>						
<b>Total Animals with Neoplasms Uncertain - Benign or Malignant</b>						
<b>Total Uncertain Neoplasms</b>						

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

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**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>Tumor Summary for MALE</b>						
Total Animals with Primary Neoplasms (b)			4	9	8	22
Total Primary Neoplasms			4	10	8	27
Total Animals with Benign Neoplasms				4	7	8
Total Benign Neoplasms				4	7	9
Total Animals with Malignant Neoplasms			4	6	1	16
Total Malignant Neoplasms			4	6	1	18
Total Animals with Metastatic Neoplasms						
Total Metastatic Neoplasms						
Total Animals with Malignant Neoplasms Uncertain Primary Site						
Total Animals with Neoplasms Uncertain - Benign or Malignant						
Total Uncertain Neoplasms						

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

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically



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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)

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

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\* Number of animals with any tissue examined microscopically

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

B6C3F1 Mouse FEMALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
Sarcoma				1 (13%)		
Squamous Cell Carcinoma				1 (13%)		
Skin, Control	(0)	(0)	(0)	(2)	(23)	(10)
Subcut Tiss, Sarcoma				1 (50%)		
Skin, SOA-Mass	(0)	(0)	(0)	(9)	(1)	(30)
Sebaceous Gl, Adenoma						
Squamous Cell Carcinoma				5 (56%)		24 (80%)
Squamous Cell Carcinoma, Multiple						6 (20%)
Squamous Cell Papilloma						1 (3%)
Squamous Cell Papilloma, Multiple						
Subcut Tiss, Sarcoma				4 (44%)		1 (3%)
Subcut Tiss, Sarcoma, Multiple				1 (11%)		
Skin, SOA-No Mass	(0)	(2)	(21)	(19)	(30)	(26)
Subcut Tiss, Lymphangioma						
Subcut Tiss, Mast Cell Tumor Benign						1 (4%)
Subcut Tiss, Sarcoma						
<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>						

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

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**Lab:** BAT

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<b>B6C3F1 Mouse FEMALE</b>	<b>VEHICLE CONTROL</b>	<b>MNNG 100/ACETONE</b>	<b>MNNG 500/ACETONE</b>	<b>MNNG1000/ACETON E</b>	<b>TPA 5 COMPLETE</b>	<b>MNNG100/COMPLET E</b>
None						

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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
<b>Disposition Summary</b>						
<b>Animals Initially In Study</b>	30	30	30	30	30	30
<b>Early Deaths</b>						
Drowned			1			
Moribund Sacrifice	1		2	5		5
Natural Death						3
<b>Survivors</b>						
Terminal Sacrifice	29	30	27	25	29	22
Missing					1	
<b>Animals Examined Microscopically</b>	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)
Sarcoma						

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

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B6C3F1 Mouse FEMALE	BPO 20 COMPLETE	MNNG 100/BPO 20	MNNG 500/BPO 20	MNNG1000/BPO 20	MNNG 100/TPA 5	MNNG1000/TPA 5
Squamous Cell Carcinoma						
Skin, Control	(8)	(2)	(3)	(4)	(10)	(12)
Subcut Tiss, Sarcoma						
Skin, SOA-Mass	(0)	(1)	(2)	(10)	(1)	(10)
Sebacous GI, Adenoma				1 (10%)		
Squamous Cell Carcinoma				4 (40%)		1 (10%)
Squamous Cell Carcinoma, Multiple						
Squamous Cell Papilloma		1 (100%)		2 (20%)	1 (100%)	1 (10%)
Squamous Cell Papilloma, Multiple						1 (10%)
Subcut Tiss, Sarcoma			1 (50%)	3 (30%)		7 (70%)
Subcut Tiss, Sarcoma, Multiple						1 (10%)
Skin, SOA-No Mass	(18)	(22)	(27)	(27)	(29)	(28)
Subcut Tiss, Lymphangioma						1 (4%)
Subcut Tiss, Mast Cell Tumor Benign						
Subcut Tiss, Sarcoma				1 (4%)		
<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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

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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>Tumor Summary for FEMALE</b>						
<b>Total Animals with Primary Neoplasms (b)</b>				<b>9</b>		<b>30</b>
<b>Total Primary Neoplasms</b>				<b>13</b>		<b>33</b>
<b>Total Animals with Benign Neoplasms</b>						<b>2</b>
<b>Total Benign Neoplasms</b>						<b>2</b>
<b>Total Animals with Malignant Neoplasms</b>				<b>9</b>		<b>30</b>
<b>Total Malignant Neoplasms</b>				<b>13</b>		<b>31</b>
<b>Total Animals with Metastatic Neoplasms</b>						
<b>Total Metastatic Neoplasms</b>						
<b>Total Animals with Malignant Neoplasms Uncertain Primary Site</b>						
<b>Total Animals with Neoplasms Uncertain - Benign or Malignant</b>						
<b>Total Uncertain Neoplasms</b>						

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

b - Primary tumors: all tumors except metastatic tumors

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**Lab:** BAT

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<b>B6C3F1 Mouse FEMALE</b>	<b>BPO 20 COMPLETE</b>	<b>MNNG 100/BPO 20</b>	<b>MNNG 500/BPO 20</b>	<b>MNNG1000/BPO 20</b>	<b>MNNG 100/TPA 5</b>	<b>MNNG1000/TPA 5</b>
<b>Tumor Summary for FEMALE</b>						
<b>Total Animals with Primary Neoplasms (b)</b>		<b>1</b>	<b>1</b>	<b>11</b>	<b>1</b>	<b>10</b>
<b>Total Primary Neoplasms</b>		<b>1</b>	<b>1</b>	<b>11</b>	<b>1</b>	<b>12</b>
<b>Total Animals with Benign Neoplasms</b>		<b>1</b>		<b>3</b>	<b>1</b>	<b>3</b>
<b>Total Benign Neoplasms</b>		<b>1</b>		<b>3</b>	<b>1</b>	<b>3</b>
<b>Total Animals with Malignant Neoplasms</b>			<b>1</b>	<b>8</b>		<b>8</b>
<b>Total Malignant Neoplasms</b>			<b>1</b>	<b>8</b>		<b>9</b>
<b>Total Animals with Metastatic Neoplasms</b>						
<b>Total Metastatic Neoplasms</b>						
<b>Total Animals with Malignant Neoplasms Uncertain Primary Site</b>						
<b>Total Animals with Neoplasms Uncertain - Benign or Malignant</b>						
<b>Total Uncertain Neoplasms</b>						

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

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically