

**Experiment Number:** 05117-02  
**Test Type:** INIT/PROMOT  
**Route:** DERMAL,SOLUTION|SKIN APPLICATION  
**Species/Strain:** Mouse/CD-1 CRL

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 17:49:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**C Number:** C61994B  
**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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**Species/Strain:** Mouse/CD-1 CRL

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**CAS Number:** INIT/PROM

**Date Report Requested:** 10/16/2014  
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**First Dose M/F:** NA / NA  
**Lab:** BAT

CD-1 CRL Mouse MALE	VEHICLE CONTROL	DMBA0.25/ACETONE E	DMBA 2.5/ACETONE	DMBA 25/ACETONE	DMBA2.5/COMPLET E	TPA 5/ COMPLETE
<b>Disposition Summary</b>						
Animals Initially In Study	30	30	30	30	30	30
Early Deaths						
Moribund Sacrifice	1	2	1	1	7	9
Natural Death	2	3		1	4	
Survivors						
Terminal Sacrifice	27	25	29	28	19	21
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	(25)	(22)	(25)	(23)	(5)	(10)
Squamous Cell Carcinoma						
Squamous Cell Papilloma						

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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Species/Strain: Mouse/CD-1 CRL

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CAS Number: INIT/PROM

Date Report Requested: 10/16/2014

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First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse MALE	VEHICLE CONTROL	DMBA0.25/ACETONE E	DMBA 2.5/ACETONE	DMBA 25/ACETONE	DMBA2.5/COMPLETE E	TPA 5/ COMPLETE
Subcut Tiss, Hemangiosarcoma	1 (4%)					
Subcut Tiss, Sarcoma						
Skin, Control	(2)	(1)	(1)	(1)	(9)	(23)
Skin, SOA-Mass	(0)	(1)	(0)	(1)	(24)	(3)
Basal Cell Adenoma					1 (4%)	
Keratoacanthoma					1 (4%)	1 (33%)
Keratoacanthoma, Multiple						
Sarcoma						
Squamous Cell Carcinoma					12 (50%)	
Squamous Cell Carcinoma, Multiple					11 (46%)	
Squamous Cell Papilloma		1 (100%)			6 (25%)	2 (67%)
Squamous Cell Papilloma, Multiple				1 (100%)	2 (8%)	
Skin, SOA-No Mass	(4)	(8)	(5)	(7)	(28)	(30)
<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						
<b>SYSTEMIC LESIONS</b>						
Multiple Organ	*(30)	*(30)	*(30)	*(30)	*(30)	*(30)

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

**Experiment Number:** 05117-02

**Test Type:** INIT/PROMOT

**Route:** DERMAL,SOLUTION|SKIN APPLICATION

**Species/Strain:** Mouse/CD-1 CRL

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

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

**Lab:** BAT

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**CD-1 CRL Mouse MALE**

**VEHICLE CONTROL**

**DMBA0.25/ACETON  
E**

**DMBA 2.5/ACETONE**

**DMBA 25/ACETONE**

**DMBA2.5/COMPLET  
E**

**TPA 5/ COMPLETE**

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Lymphoma Malignant Lymphocytic

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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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**Species/Strain:** Mouse/CD-1 CRL

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

**Date Report Requested:** 10/16/2014  
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**First Dose M/F:** NA / NA  
**Lab:** BAT

CD-1 CRL Mouse MALE	BPO 20/ COMPLETE	DMBA0.25/ TPA 5	DMBA 2.5/ TPA 5	DMBA 25/ TPA 5	DMBA 2.5/ BPO 20	DMBA 25/ BPO 20
<b>Disposition Summary</b>						
<b>Animals Initially In Study</b>	30	30	30	30	30	30
<b>Early Deaths</b>						
<b>Moribund Sacrifice</b>	2	6	8	13	2	6
<b>Natural Death</b>	3	4	7	2	1	
<b>Survivors</b>						
<b>Terminal Sacrifice</b>	25	20	15	15	27	24
<b>Animals Examined Microscopically</b>	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	(5)	(9)	(9)	(10)	(5)	(9)
Squamous Cell Carcinoma			1 (11%)			
Squamous Cell Papilloma						1 (11%)
Subcut Tiss, Hemangiosarcoma						

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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Route: DERMAL,SOLUTION|SKIN APPLICATION

Species/Strain: Mouse/CD-1 CRL

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CAS Number: INIT/PROM

Date Report Requested: 10/16/2014

Time Report Requested: 17:49:20

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse MALE	BPO 20/ COMPLETE	DMBA0.25/ TPA 5	DMBA 2.5/ TPA 5	DMBA 25/ TPA 5	DMBA 2.5/ BPO 20	DMBA 25/ BPO 20
Subcut Tiss, Sarcoma		1 (11%)				
Skin, Control	(11)	(14)	(10)	(19)	(10)	(12)
Skin, SOA-Mass	(1)	(16)	(21)	(22)	(3)	(9)
Basal Cell Adenoma						
Keratoacanthoma		1 (6%)				
Keratoacanthoma, Multiple			1 (5%)	1 (5%)		
Sarcoma			1 (5%)	1 (5%)		1 (11%)
Squamous Cell Carcinoma			6 (29%)	10 (45%)		
Squamous Cell Carcinoma, Multiple			4 (19%)	4 (18%)		
Squamous Cell Papilloma	1 (100%)	7 (44%)	6 (29%)	4 (18%)	2 (67%)	6 (67%)
Squamous Cell Papilloma, Multiple		9 (56%)	11 (52%)	13 (59%)	1 (33%)	1 (11%)
Skin, SOA-No Mass	(28)	(30)	(30)	(30)	(26)	(29)
<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						
<b>SYSTEMIC LESIONS</b>						
Multiple Organ	*(30)	*(30)	*(30)	*(30)	*(30)	*(30)
Lymphoma Malignant Lymphocytic						1 (3%)

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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**Route:** DERMAL,SOLUTION|SKIN APPLICATION  
**Species/Strain:** Mouse/CD-1 CRL

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 17:49:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

CD-1 CRL Mouse MALE	VEHICLE CONTROL	DMBA0.25/ACETONE E	DMBA 2.5/ACETONE	DMBA 25/ACETONE	DMBA2.5/COMPLET E	TPA 5/ COMPLETE
<b>Tumor Summary for MALE</b>						
<b>Total Animals with Primary Neoplasms (b)</b>	1	1		1	24	3
<b>Total Primary Neoplasms</b>	1	1		1	33	3
<b>Total Animals with Benign Neoplasms</b>		1		1	9	3
<b>Total Benign Neoplasms</b>		1		1	10	3
<b>Total Animals with Malignant Neoplasms</b>	1				23	
<b>Total Malignant Neoplasms</b>	1				23	
<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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 Species/Strain: Mouse/CD-1 CRL

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Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
 CAS Number: INIT/PROM

Date Report Requested: 10/16/2014  
 Time Report Requested: 17:49:20  
 First Dose M/F: NA / NA  
 Lab: BAT

CD-1 CRL Mouse MALE	BPO 20/ COMPLETE	DMBA0.25/ TPA 5	DMBA 2.5/ TPA 5	DMBA 25/ TPA 5	DMBA 2.5/ BPO 20	DMBA 25/ BPO 20
<b>Tumor Summary for MALE</b>						
Total Animals with Primary Neoplasms (b)	1	16	21	21	3	10
Total Primary Neoplasms	1	18	30	33	3	10
Total Animals with Benign Neoplasms	1	16	17	17	3	8
Total Benign Neoplasms	1	17	18	18	3	8
Total Animals with Malignant Neoplasms		1	11	14		2
Total Malignant Neoplasms		1	12	15		2
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



Experiment Number: 051117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|SKIN APPLICATION

Species/Strain: Mouse/CD-1 CRL

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

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

CAS Number: INIT/PROM

Date Report Requested: 10/16/2014

Time Report Requested: 17:49:20

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse FEMALE	VEHICLE CONTROL	DMBA0.25/ACETONE E	DMBA 2.5/ACETONE	DMBA 25/ACETONE	DMBA2.5/COMPLET E	TPA 5/ COMPLETE
<b>Disposition Summary</b>						
Animals Initially In Study	30	30	30	30	30	30
Early Deaths						
Drowned						1
Moribund Sacrifice	1				7	4
Natural Death	1	1	1	1	3	1
Survivors						
Accidentally Killed				1		
Moribund Sacrifice	1					
Natural Death						1
Terminal Sacrifice	27	29	29	28	20	23
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

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

**Experiment Number:** 05117-02  
**Test Type:** INIT/PROMOT  
**Route:** DERMAL,SOLUTION|SKIN APPLICATION  
**Species/Strain:** Mouse/CD-1 CRL

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 17:49:20  
**First Dose M/F:** NA / NA  
**Lab:** BAT

CD-1 CRL Mouse FEMALE	VEHICLE CONTROL	DMBA0.25/ACETONE E	DMBA 2.5/ACETONE	DMBA 25/ACETONE	DMBA2.5/COMPLETE E	TPA 5/ COMPLETE
<b>INTEGUMENTARY SYSTEM</b>						
Skin	(22)	(25)	(19)	(24)	(0)	(8)
Squamous Cell Papilloma				1 (4%)		
Skin, Control	(3)	(3)	(6)	(1)	(15)	(26)
Skin, SOA-Mass	(0)	(0)	(0)	(0)	(25)	(7)
Keratoacanthoma						
Keratoacanthoma, Multiple					1 (4%)	
Sebaceous GI, Adenoma						
Squamous Cell Carcinoma					16 (64%)	
Squamous Cell Carcinoma, Multiple					7 (28%)	
Squamous Cell Papilloma					3 (12%)	5 (71%)
Squamous Cell Papilloma, Multiple					5 (20%)	1 (14%)
Subcut Tiss, Fibrosarcoma					1 (4%)	
Subcut Tiss, Sarcoma						
Skin, SOA-No Mass	(9)	(5)	(10)	(5)	(28)	(30)
Squamous Cell Carcinoma						
<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

**Experiment Number:** 05117-02

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**Route:** DERMAL,SOLUTION|SKIN APPLICATION

**Species/Strain:** Mouse/CD-1 CRL

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

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**CAS Number:** INIT/PROM

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

**Lab:** BAT

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**CD-1 CRL Mouse FEMALE**

**VEHICLE CONTROL**

**DMBA0.25/ACETONE  
E**

**DMBA 2.5/ACETONE**

**DMBA 25/ACETONE**

**DMBA2.5/COMPLET  
E**

**TPA 5/ COMPLETE**

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None

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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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**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
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**First Dose M/F:** NA / NA  
**Lab:** BAT

CD-1 CRL Mouse FEMALE	BPO 20/ COMPLETE	DMBA0.25/ TPA 5	DMBA 2.5/ TPA 5	DMBA 25/ TPA 5	DMBA 2.5/ BPO 20	DMBA 25/ BPO 20
<b>Disposition Summary</b>						
<b>Animals Initially In Study</b>	30	30	30	30	30	30
<b>Early Deaths</b>						
<b>Drowned</b>						
<b>Moribund Sacrifice</b>		6	7	10	1	
<b>Natural Death</b>		2	3	4	1	
<b>Survivors</b>						
<b>Accidentally Killed</b>						
<b>Moribund Sacrifice</b>						
<b>Natural Death</b>			1			
<b>Terminal Sacrifice</b>	30	22	19	16	28	30
<b>Animals Examined Microscopically</b>	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

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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Species/Strain: Mouse/CD-1 CRL

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Date Report Requested: 10/16/2014

Time Report Requested: 17:49:20

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse FEMALE	BPO 20/ COMPLETE	DMBA0.25/ TPA 5	DMBA 2.5/ TPA 5	DMBA 25/ TPA 5	DMBA 2.5/ BPO 20	DMBA 25/ BPO 20
Skin	(1)	(5)	(4)	(4)	(1)	(1)
Squamous Cell Papilloma						
Skin, Control	(30)	(22)	(25)	(19)	(19)	(20)
Skin, SOA-Mass	(0)	(18)	(20)	(28)	(5)	(6)
Keratoacanthoma		3 (17%)	1 (5%)	1 (4%)		1 (17%)
Keratoacanthoma, Multiple			1 (5%)			
Sebaceous GI, Adenoma			1 (5%)			
Squamous Cell Carcinoma		5 (28%)	8 (40%)	11 (39%)		2 (33%)
Squamous Cell Carcinoma, Multiple		2 (11%)	4 (20%)	6 (21%)		
Squamous Cell Papilloma		5 (28%)	3 (15%)	4 (14%)	4 (80%)	2 (33%)
Squamous Cell Papilloma, Multiple		10 (56%)	12 (60%)	18 (64%)	1 (20%)	3 (50%)
Subcut Tiss, Fibrosarcoma						
Subcut Tiss, Sarcoma			1 (5%)	1 (4%)		
Skin, SOA-No Mass	(30)	(29)	(30)	(30)	(30)	(28)
Squamous Cell Carcinoma				1 (3%)		
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 - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

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

CD-1 CRL Mouse FEMALE	VEHICLE CONTROL	DMBA0.25/ACETONE E	DMBA 2.5/ACETONE	DMBA 25/ACETONE	DMBA2.5/COMPLET E	TPA 5/ COMPLETE
<b>Tumor Summary for FEMALE</b>						
<b>Total Animals with Primary Neoplasms (b)</b>				1	25	6
<b>Total Primary Neoplasms</b>				1	33	6
<b>Total Animals with Benign Neoplasms</b>				1	8	6
<b>Total Benign Neoplasms</b>				1	9	6
<b>Total Animals with Malignant Neoplasms</b>					23	
<b>Total Malignant Neoplasms</b>					24	
<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

Experiment Number: 05117-02  
Test Type: INIT/PROMOT  
Route: DERMAL,SOLUTION|SKIN APPLICATION  
Species/Strain: Mouse/CD-1 CRL

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS  
ABRIDGED) (a)**

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

CAS Number: INIT/PROM

Date Report Requested: 10/16/2014  
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First Dose M/F: NA / NA  
Lab: BAT

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CD-1 CRL Mouse FEMALE	BPO 20/ COMPLETE	DMBA0.25/ TPA 5	DMBA 2.5/ TPA 5	DMBA 25/ TPA 5	DMBA 2.5/ BPO 20	DMBA 25/ BPO 20
<b>Tumor Summary for FEMALE</b>						
Total Animals with Primary Neoplasms (b)		18	20	28	5	6
Total Primary Neoplasms		25	31	42	5	8
Total Animals with Benign Neoplasms		16	15	22	5	5
Total Benign Neoplasms		18	18	23	5	6
Total Animals with Malignant Neoplasms		7	13	18		2
Total Malignant Neoplasms		7	13	19		2
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						

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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