Experiment Number: 05117-05
Test Type: INIT/PROMOT
Route: 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:** 10/19/2014 **Time Report Requested:** 17:42:13

First Dose M/F: NA / NA

Lab: BAT

C Number: C61994B

**Lock Date:** 04/09/1992

Cage Range: All

Date Range: All

Reasons For Removal:

Removal Date Range: All

Treatment Groups: All

Study Gender: Both

PWG Approval Date 04/28/1994

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

# 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: 10/19/2014 Time Report Requested: 17:42:13

First Dose M/F: NA / NA

CD-1 CRL Mouse MALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET
Disposition Summary						
Animals Initially In Study	30	30	30	30	30	30
Early Deaths						
Moribund Sacrifice	3	1	12	19	11	15
Natural Death		1	1	2	2	1
Survivors						
Terminal Sacrifice	27	28	17	9	17	14
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	(27)	(22)	(15)	(14)	(9)	(7)
Squamous Cell Carcinoma				1 (7%)	1 (11%)	
Squamous Cell Carcinoma, Metastatic, Skin					,	1 (14%)

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

b - Primary tumors: all tumors except metastatic tumors

<sup>\*</sup> Number of animals with any tissue examined microscopically

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

# 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: 10/19/2014 Time Report Requested: 17:42:13

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse MALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
Subcut Tiss, Sarcoma				1 (7%)		
Skin, Control	(0)	(0)	(0)	(2)	(12)	(16)
Skin, SOA-Mass	(0)	(1)	(4)	(13)	(5)	(21)
Keratoacanthoma						
Keratoacanthoma, Multiple						
Squamous Cell Carcinoma			1 (25%)	3 (23%)		9 (43%)
Squamous Cell Carcinoma, Multiple				1 (8%)		5 (24%)
Squamous Cell Papilloma				2 (15%)	3 (60%)	6 (29%)
Squamous Cell Papilloma, Multiple					1 (20%)	
Subcut Tiss, Hemangioma						
Subcut Tiss, Hemangiosarcoma						
Subcut Tiss, Sarcoma			2 (50%)	7 (54%)		6 (29%)
Skin, SOA-No Mass	(4)	(8)	(18)	(23)	(30)	(29)
Subcut Tiss, Fibroma						1 (3%)
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
None					,	
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
None						

SYSTEMIC LESIONS

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

b - Primary tumors: all tumors except metastatic tumors

<sup>\*</sup> Number of animals with any tissue examined microscopically

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

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: 10/19/2014
Time Report Requested: 17:42:13

First Dose M/F: NA / NA

CD-1 CRL Mouse MALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
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

<sup>\*</sup> Number of animals with any tissue examined microscopically

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 17:42:13

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse MALE	BPO 20 COMPLETE	MNNG 100/BPO 20	MNNG 500/BPO 20	MNNG1000/BPO 20	MNNG 100/TPA 5	MNNG1000/TPA
Disposition Summary						
Animals Initially In Study	30	30	30	30	30	30
Early Deaths						
Moribund Sacrifice	9	3	9	17	17	22
Natural Death	1	1	3	5	3	4
Survivors						
Terminal Sacrifice	20	26	18	8	10	4
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	(13)	(10)	(7)	(14)	(14)	(12)
Squamous Cell Carcinoma						2 (17%)
Squamous Cell Carcinoma, Metastatic, Skin						2 (17%)

Subcut Tiss, Sarcoma

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

b - Primary tumors: all tumors except metastatic tumors

<sup>\*</sup> Number of animals with any tissue examined microscopically

Experiment Number: 05117-05
Test Type: INIT/PROMOT
Route: 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: 10/19/2014
Time Report Requested: 17:42:13

Lab: BAT

First Dose M/F: NA / NA

CD-1 CRL Mouse MALE	BPO 20 COMPLETE	MNNG 100/BPO 20	MNNG 500/BPO 20	MNNG1000/BPO 20	MNNG 100/TPA 5	MNNG1000/TPA !
Skin, Control	(8)	(4)	(2)	(11)	(21)	(15)
Skin, SOA-Mass	(1)	(1)	(5)	(16)	(10)	(20)
Keratoacanthoma	(.)	(.,	(0)	(1.5)	(1.5)	4 (20%)
Keratoacanthoma, Multiple						2 (10%)
Squamous Cell Carcinoma				8 (50%)		8 (40%)
Squamous Cell Carcinoma, Multiple				,	2 (20%)	,
Squamous Cell Papilloma		2 (200%)	2 (40%)	6 (38%)	8 (80%)	12 (60%)
Squamous Cell Papilloma, Multiple		,	,	,	10 (100%)	6 (30%)
Subcut Tiss, Hemangioma				2 (13%)	, ,	, ,
Subcut Tiss, Hemangiosarcoma						2 (10%)
Subcut Tiss, Sarcoma			8 (160%)	18 (113%)	2 (20%)	22 (110%)
Skin, SOA-No Mass	(25)	(23)	(27)	(28)	(30)	(29)
Subcut Tiss, Fibroma						
MUSCULOSKELETAL SYSTEM None						
NERVOUS SYSTEM None						
RESPIRATORY SYSTEM None						
SPECIAL SENSES SYSTEM None						
URINARY SYSTEM None						
SYSTEMIC LESIONS  Multiple Organ  Lymphoma Malignant Lymphocytic	*(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

<sup>\*</sup> Number of animals with any tissue examined microscopically

Route: 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: 10/19/2014 Time Report Requested: 17:42:13

First Dose M/F: NA / NA

Lab: BAT

**CD-1 CRL Mouse MALE** 

BPO 20 COMPLETE MNNG 100/BPO 20

MNNG 500/BPO 20

MNNG1000/BPO 20

**MNNG 100/TPA 5** 

MNNG1000/TPA 5

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

b - Primary tumors: all tumors except metastatic tumors

<sup>\*</sup> Number of animals with any tissue examined microscopically

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 17:42:13

First Dose M/F: NA / NA

CD-1 CRL Mouse MALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
Tumor Summary for MALE						
Total Animals with Primary Neoplasms (b)			3	13	5	23
Total Primary Neoplasms			3	15	5	28
Total Animals with Benign Neoplasms				2	4	7
Total Benign Neoplasms				2	4	7
Total Animals with Malignant Neoplasms			3	12	1	21
Total Malignant Neoplasms			3	13	1	21
Total Animals with Metastatic Neoplasms						1
Total Metastatic Neoplasms						1
Total Animals with Malignant Neoplasms Uncertain Primary Site						
Total Animals with Neoplasms Uncertain - Benign or Malignant						
Total Uncertain Neoplasms						

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

b - Primary tumors: all tumors except metastatic tumors

<sup>\*</sup> Number of animals with any tissue examined microscopically

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 17:42:13

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse MALE	BPO 20 COMPLETE	MNNG 100/BPO 20	MNNG 500/BPO 20	MNNG1000/BPO 20	MNNG 100/TPA 5	MNNG1000/TPA 5
Tumor Summary for MALE						
Total Animals with Primary Neoplasms (b)		1	5	16	10	20
Total Primary Neoplasms		2	10	34	22	58
Total Animals with Benign Neoplasms		1	1	4	9	10
Total Benign Neoplasms		2	2	8	18	24
Total Animals with Malignant Neoplasms			4	13	2	17
Total Malignant Neoplasms			8	26	4	34
Total Animals with Metastatic Neoplasms						1
Total Metastatic Neoplasms						2
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

<sup>\*</sup> Number of animals with any tissue examined microscopically

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 17:42:13

First Dose M/F: NA / NA

CD-1 CRL Mouse FEMALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLETE
Disposition Summary						
Animals Initially In Study	30	30	30	30	30	30
Early Deaths						
Moribund Sacrifice	2	1	2	13	4	9
Natural Death	1		1	2	1	2
Survivors						
Terminal Sacrifice	27	29	26	15	23	19
Other			1		2	
Animals Examined Microscopically	30	30	29	30	28	30
ALIMENTARY SYSTEM None						
CARDIOVASCULAR SYSTEM None						
ENDOCRINE SYSTEM None						
GENERAL BODY SYSTEM None						
GENITAL SYSTEM None			,		,	
HEMATOPOIETIC SYSTEM None						
INTEGUMENTARY SYSTEM Skin Squamous Cell Papilloma	(29)	(21)	(10)	(8)	(4)	(4) 1 (25%)

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

b - Primary tumors: all tumors except metastatic tumors

<sup>\*</sup> Number of animals with any tissue examined microscopically

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

# 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: 10/19/2014 Time Report Requested: 17:42:13

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse FEMALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
Subcut Tiss, Sarcoma						
Skin, Control	(0)	(0)	(4)	(2)	(18)	(22)
Skin, SOA-Mass	(0)	(0)	(7)	(9)	(5)	(20)
Keratoacanthoma						
Squamous Cell Carcinoma			2 (29%)	3 (33%)		11 (55%)
Squamous Cell Carcinoma, Multiple				1 (11%)		4 (20%)
Squamous Cell Papilloma			1 (14%)	2 (22%)	4 (80%)	4 (20%)
Squamous Cell Papilloma, Multiple			1 (14%)			5 (25%)
Subcut Tiss, Fibroma			1 (14%)			
Subcut Tiss, Hemangioma						
Subcut Tiss, Sarcoma			2 (29%)	5 (56%)		4 (20%)
Skin, SOA-No Mass	(2)	(9)	(14)	(26)	(28)	(27)
Squamous Cell Carcinoma						
Squamous Cell Carcinoma, Multiple						
Subcut Tiss, Sarcoma				1 (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 - Primary tumors: all tumors except metastatic tumors

<sup>\*</sup> Number of animals with any tissue examined microscopically

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

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: 10/19/2014
Time Report Requested: 17:42:13

First Dose M/F: NA / NA

CD-1 CRL Mouse FEMALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
SYSTEMIC LESIONS  Multiple Organ	*(30)	*(30)	*(29)	*(30)	*(28)	*(30)
Lymphoma Malignant Lymphocytic					1 (4%)	

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

b - Primary tumors: all tumors except metastatic tumors

<sup>\*</sup> Number of animals with any tissue examined microscopically

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 17:42:13

First Dose M/F: NA / NA

CD-1 CRL 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 Early Deaths	30	30	30	30	30	30
Moribund Sacrifice	1	2	9	10	6	13
Natural Death Survivors			1	3	2	2
Terminal Sacrifice	29	28	20	17	22	14
Other	20	20	20	20	20	1
Animals Examined Microscopically	30	30	30	30	30	29
ALIMENTARY SYSTEM None						
CARDIOVASCULAR SYSTEM None				,		
ENDOCRINE SYSTEM None						
GENERAL BODY SYSTEM None						
GENITAL SYSTEM None						
HEMATOPOIETIC SYSTEM None						
INTEGUMENTARY SYSTEM Skin	(9)	(4)	(5)	(8)	(3)	(5)
Squamous Cell Papilloma Subcut Tiss, Sarcoma			2 (40%)	4 (50%)		2 (40%)

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

b - Primary tumors: all tumors except metastatic tumors

<sup>\*</sup> Number of animals with any tissue examined microscopically

Experiment Number: 05117-05
Test Type: INIT/PROMOT
Route: 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: 10/19/2014 Time Report Requested: 17:42:13

Lab: BAT

First Dose M/F: NA / NA

CD-1 CRL Mouse FEMALE	BPO 20 COMPLETE	MNNG 100/BPO 20	MNNG 500/BPO 20	MNNG1000/BPO 20	MNNG 100/TPA 5	MNNG1000/TPA 5
Skin, Control	(5)	(4)	(12)	(7)	(10)	(12)
Skin, SOA-Mass	(0)	(3)	(12)	(12)	(16)	(14)
Keratoacanthoma		2 (67%)	2 (17%)		2 (13%)	
Squamous Cell Carcinoma			6 (50%)	6 (50%)	10 (63%)	6 (43%)
Squamous Cell Carcinoma, Multiple				2 (17%)		2 (14%)
Squamous Cell Papilloma		4 (133%)	12 (100%)	4 (33%)	10 (63%)	14 (100%)
Squamous Cell Papilloma, Multiple					16 (100%)	4 (29%)
Subcut Tiss, Fibroma						
Subcut Tiss, Hemangioma					2 (13%)	
Subcut Tiss, Sarcoma			6 (50%)	12 (100%)		6 (43%)
Skin, SOA-No Mass	(21)	(28)	(28)	(26)	(29)	(29)
Squamous Cell Carcinoma					2 (7%)	2 (7%)
Squamous Cell Carcinoma, Multiple				2 (8%)		
Subcut Tiss, Sarcoma						
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
None						
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
None						
SYSTEMIC LESIONS						
Multiple Organ	*(30)	*(30)	*(30)	*(30)	*(30)	*(29)

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

b - Primary tumors: all tumors except metastatic tumors

<sup>\*</sup> Number of animals with any tissue examined microscopically

Route: 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: 10/19/2014 Time Report Requested: 17:42:13

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse FEMALE BPO 20 COMPLETE MNNG 100/BPO 20 MNNG 500/BPO 20 MNNG1000/BPO 20 MNNG 100/TPA 5 MNNG1000/TPA 5

Lymphoma Malignant Lymphocytic

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

b - Primary tumors: all tumors except metastatic tumors

<sup>\*</sup> Number of animals with any tissue examined microscopically

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

# 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: 10/19/2014
Time Report Requested: 17:42:13

First Dose M/F: NA / NA

CD-1 CRL Mouse FEMALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
Tumor Summary for FEMALE						
Total Animals with Primary Neoplasms (b) Total Primary Neoplasms			6 7	10 12	5 5	19 29
Total Animals with Benign Neoplasms  Total Benign Neoplasms			3 3	2 2	4 4	9 10
Total Animals with Malignant Neoplasms Total Malignant Neoplasms			4 4	9 10	1 1	17 19
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						

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

b - Primary tumors: all tumors except metastatic tumors

<sup>\*</sup> Number of animals with any tissue examined microscopically

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

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: 10/19/2014
Time Report Requested: 17:42:13

First Dose M/F: NA / NA

	•					
CD-1 CRL Mouse FEMALE	BPO 20 COMPLETE	MNNG 100/BPO 20	MNNG 500/BPO 20	MNNG1000/BPO 20	MNNG 100/TPA 5	MNNG1000/TPA 5
Tumor Summary for FEMALE						
Total Animals with Primary Neoplasms (b)		3	13	13	15	15
Total Primary Neoplasms		6	28	30	42	36
Total Animals with Benign Neoplasms		3	7	2	13	9
Total Benign Neoplasms		6	14	4	30	18
Total Animals with Malignant Neoplasms			6	12	6	8
Total Malignant Neoplasms			14	26	12	18
Total Animals with Metastatic Neoplasms						
<b>Total Metastatic Neoplasms</b>						
Total Animals with Malignant Neoplasms Uncertain Primary Site						
Total Animals with Neoplasms Uncertain - Benign or Malignant						
Total Uncertain Neoplasms						

<sup>\*\*</sup> 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

<sup>\*</sup> Number of animals with any tissue examined microscopically