

Experiment Number: 05117-05
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/CD-1 CRL

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: 10/19/2014
Time Report Requested: 17:41:58
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: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: 04/28/1994

Experiment Number: 05117-05
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Route: SKIN APPLICATION
Species/Strain: Mouse/CD-1 CRL

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CAS Number: INIT/PROM

Date Report Requested: 10/19/2014
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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
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

* Number of animals with any tissue examined microscopically

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CAS Number: INIT/PROM

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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)
Lymphoma Malignant Lymphocytic						1 (6%)
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)
Lymphoma Malignant Lymphocytic						1 (3%)
Subcut Tiss, Fibroma						1 (3%)

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 - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 051117-05
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/CD-1 CRL

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: 10/19/2014
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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
None						
SYSTEMIC LESIONS						
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

Experiment Number: 05117-05
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Route: SKIN APPLICATION
Species/Strain: Mouse/CD-1 CRL

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
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CAS Number: INIT/PROM

Date Report Requested: 10/19/2014
Time Report Requested: 17:41:58
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
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

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* Number of animals with any tissue examined microscopically

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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
Skin, Control	(8)	(4)	(2)	(11)	(21)	(15)
Lymphoma Malignant Lymphocytic						
Skin, SOA-Mass	(1)	(1)	(5)	(16)	(10)	(20)
Keratoacanthoma						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)
Lymphoma Malignant Lymphocytic						
Subcut Tiss, Fibroma						
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

* Number of animals with any tissue examined microscopically

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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
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

* Number of animals with any tissue examined microscopically

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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
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

* Number of animals with any tissue examined microscopically

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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

* Number of animals with any tissue examined microscopically

Experiment Number: 051117-05
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Species/Strain: Mouse/CD-1 CRL

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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
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	(29)	(21)	(10)	(8)	(4)	(4)
Squamous Cell Papilloma						1 (25%)

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	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
Subcut Tiss, Lymphoma Malignant Lymphocytic					1 (25%)	
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

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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CD-1 CRL Mouse FEMALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
None						
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

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* Number of animals with any tissue examined microscopically

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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	30	30	30	30	30	30
Early Deaths						
Moribund Sacrifice	1	2	9	10	6	13
Natural Death			1	3	2	2
Survivors						
Terminal Sacrifice	29	28	20	17	22	14
Other						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						

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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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
Subcut Tiss, Lymphoma Malignant Lymphocytic						
Subcut Tiss, Sarcoma			2 (40%)	4 (50%)		2 (40%)
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						

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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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
None						
SYSTEMIC LESIONS						
Multiple Organ	*(30)	*(30)	*(30)	*(30)	*(30)	*(29)
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

* Number of animals with any tissue examined microscopically

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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)			6	10	5	19
Total Primary Neoplasms			7	12	5	29
Total Animals with Benign Neoplasms			3	2	4	9
Total Benign Neoplasms			3	2	4	10
Total Animals with Malignant Neoplasms			4	9	1	17
Total Malignant Neoplasms			4	10	1	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

* Number of animals with any tissue examined microscopically

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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						
Total Metastatic Neoplasms						
Total Animals with Malignant Neoplasms Uncertain Primary Site						
Total Animals with Neoplasms Uncertain - Benign or Malignant						
Total Uncertain Neoplasms						

**** 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