

Experiment Number: 05117-06
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/SENCAR

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: 10/18/2014
Time Report Requested: 19:48:56
First Dose M/F: NA / NA
Lab: BAT

C Number: C61994C
Lock Date: Not Entered.
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: 04/29/1994

Experiment Number: 051117-06
 Test Type: INIT/PROMOT
 Route: SKIN APPLICATION
 Species/Strain: Mouse/SENCAR

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: 10/18/2014
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 First Dose M/F: NA / NA
 Lab: BAT

SENCAR Mouse MALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	MNNG100/COMPLET E	BPO 20 COMPLETE
Disposition Summary						
Animals Initially In Study	30	30	30	30	30	30
Early Deaths						
Moribund Sacrifice		2	10	20	23	3
Natural Death	1		4	3	3	
Survivors						
Natural Death						1
Terminal Sacrifice	29	28	16	7	4	26
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	(29)	(21)	(11)	(19)	(5)	(4)
Squamous Cell Carcinoma						

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

SENCAR Mouse MALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	MNNG100/COMPLET E	BPO 20 COMPLETE
Squamous Cell Carcinoma, Multiple				1 (5%)		
Subcut Tiss, Sarcoma			1 (9%)	1 (5%)		
Skin, Control	(0)	(0)	(4)	(5)	(22)	(15)
Skin, SOA-Mass	(0)	(3)	(12)	(18)	(28)	(1)
Basal Cell Adenoma			2 (17%)		1 (4%)	
Keratoacanthoma						
Sebaceous Gl, Adenoma						
Squamous Cell Carcinoma			5 (42%)	6 (33%)	19 (68%)	
Squamous Cell Carcinoma, Multiple			1 (8%)	2 (11%)	8 (29%)	
Squamous Cell Papilloma		1 (33%)	1 (8%)	6 (33%)	5 (18%)	1 (100%)
Squamous Cell Papilloma, Multiple			1 (8%)	2 (11%)	2 (7%)	
Subcut Tiss, Fibroma						
Subcut Tiss, Sarcoma			4 (33%)	3 (17%)	1 (4%)	
Subcut Tiss, Sarcoma, Multiple			1 (8%)			
Subcut Tiss, Squamous Cell Carcinoma				1 (6%)		
Trichoepithelioma						
Skin, SOA-No Mass	(1)	(6)	(19)	(19)	(30)	(27)
Squamous Cell Carcinoma			1 (5%)			
Subcut Tiss, Sarcoma					2 (7%)	

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

None

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

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Date Report Requested: 10/18/2014
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First Dose M/F: NA / NA
Lab: BAT

SENCAR Mouse MALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	MNNG100/COMPLET E	BPO 20 COMPLETE
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

Experiment Number: 05117-06
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 First Dose M/F: NA / NA
 Lab: BAT

SENCAR Mouse MALE	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
Early Deaths					
Moribund Sacrifice	2	11	21		
Natural Death		3	3		
Survivors					
Natural Death					
Terminal Sacrifice	28	16	6		
Animals Examined Microscopically	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	(0)	(3)	(3)	(0)	(0)
Squamous Cell Carcinoma			2 (67%)		
Squamous Cell Carcinoma, Multiple					

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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P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)
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Date Report Requested: 10/18/2014
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First Dose M/F: NA / NA
Lab: BAT

SENCAR Mouse MALE	MNNG 100/BPO 20	MNNG 500/BPO 20	MNNG1000/BPO 20	MNNG 100/TPA 5	MNNG1000/TPA 5
Subcut Tiss, Sarcoma					
Skin, Control	(15)	(14)	(21)	(0)	(0)
Skin, SOA-Mass	(12)	(21)	(27)	(0)	(0)
Basal Cell Adenoma			2 (7%)		
Keratoacanthoma	4 (33%)	6 (29%)			
Sebaceous Gl, Adenoma		2 (10%)			
Squamous Cell Carcinoma	2 (17%)	18 (86%)	30 (111%)		
Squamous Cell Carcinoma, Multiple	2 (17%)	2 (10%)	6 (22%)		
Squamous Cell Papilloma	12 (100%)	6 (29%)	12 (44%)		
Squamous Cell Papilloma, Multiple	4 (33%)	8 (38%)			
Subcut Tiss, Fibroma		2 (10%)			
Subcut Tiss, Sarcoma		10 (48%)	10 (37%)		
Subcut Tiss, Sarcoma, Multiple					
Subcut Tiss, Squamous Cell Carcinoma					
Trichoepithelioma			2 (7%)		
Skin, SOA-No Mass	(29)	(29)	(28)	(0)	(0)
Squamous Cell Carcinoma					
Subcut Tiss, Sarcoma					
MUSCULOSKELETAL SYSTEM					
None					
NERVOUS SYSTEM					
None					
RESPIRATORY SYSTEM					
None					
SPECIAL SENSES 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: 05117-06
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/SEN CAR

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: 10/18/2014
Time Report Requested: 19:48:56
First Dose M/F: NA / NA
Lab: BAT

SEN CAR Mouse MALE	MNNG 100/BPO 20	MNNG 500/BPO 20	MNNG1000/BPO 20	MNNG 100/TPA 5	MNNG1000/TPA 5
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

Experiment Number: 05117-06
 Test Type: INIT/PROMOT
 Route: SKIN APPLICATION
 Species/Strain: Mouse/SEN CAR

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: 10/18/2014
 Time Report Requested: 19:48:56
 First Dose M/F: NA / NA
 Lab: BAT

SEN CAR Mouse MALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	MNNG100/COMPLET E	BPO 20 COMPLETE
Tumor Summary for MALE						
Total Animals with Primary Neoplasms (b)		1	14	18	28	1
Total Primary Neoplasms		1	17	22	38	1
Total Animals with Benign Neoplasms		1	4	8	8	1
Total Benign Neoplasms		1	4	8	8	1
Total Animals with Malignant Neoplasms			13	14	27	
Total Malignant Neoplasms			13	14	30	
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

Experiment Number: 05117-06
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/SENCAR

**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: 10/18/2014
Time Report Requested: 19:48:56
First Dose M/F: NA / NA
Lab: BAT

SENCAR Mouse MALE	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)	11	18	27		
Total Primary Neoplasms	24	54	64		
Total Animals with Benign Neoplasms	9	11	8		
Total Benign Neoplasms	20	24	16		
Total Animals with Malignant Neoplasms	2	14	23		
Total Malignant Neoplasms	4	30	48		
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: 051117-06
 Test Type: INIT/PROMOT
 Route: SKIN APPLICATION
 Species/Strain: Mouse/SENCAR

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: 10/18/2014
 Time Report Requested: 19:48:56
 First Dose M/F: NA / NA
 Lab: BAT

SENCAR 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						
Accidentally Killed	1					
Moribund Sacrifice	1		5	13		25
Natural Death	2		3	6		2
Survivors						
Terminal Sacrifice	26	30	22	11		3
Animals Examined Microscopically	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						
Mammary Gland	(0)	(0)	(1)	(0)	(0)	(0)
Adenoacanthoma			1 (100%)			

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

SENCAR Mouse FEMALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
Skin	(30)	(28)	(10)	(9)	(0)	(5)
Squamous Cell Carcinoma						
Skin, Control	(0)	(0)	(3)	(6)	(0)	(20)
Skin, SOA-Mass	(0)	(0)	(8)	(22)	(0)	(28)
Basal Cell Adenoma						1 (4%)
Keratoacanthoma			1 (13%)			1 (4%)
Sarcoma						
Squamous Cell Carcinoma			5 (63%)	14 (64%)		17 (61%)
Squamous Cell Carcinoma, Multiple				1 (5%)		11 (39%)
Squamous Cell Papilloma			1 (13%)	3 (14%)		5 (18%)
Squamous Cell Papilloma, Multiple			1 (13%)	1 (5%)		2 (7%)
Subcut Tiss, Sarcoma			1 (13%)	4 (18%)		3 (11%)
Skin, SOA-No Mass	(0)	(2)	(17)	(17)	(0)	(28)
Squamous Cell Carcinoma				1 (6%)		

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

Experiment Number: 05117-06
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/SEN CAR

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

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

SEN CAR Mouse FEMALE	VEHICLE CONTROL	MNNG 100/ACETONE	MNNG 500/ACETONE	MNNG1000/ACETON E	TPA 5 COMPLETE	MNNG100/COMPLET E
Multiple Organ	*(30)	*(30)	*(30)	*(30)		*(30)
Lymphoma Malignant Undifferentiated Cell Type						1 (3%)

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

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CAS Number: INIT/PROM

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 Lab: BAT

SENCAR 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						
Accidentally Killed						
Moribund Sacrifice	1	1	7	12		
Natural Death	2			4		
Survivors						
Terminal Sacrifice	27	29	23	14		
Animals Examined Microscopically	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						
Mammary Gland	(0)	(0)	(0)	(0)	(0)	(0)
Adenoacanthoma						
Skin	(5)	(2)	(3)	(5)	(0)	(0)

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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SENCAR 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				2 (40%)		
Skin, Control	(14)	(15)	(17)	(18)	(0)	(0)
Skin, SOA-Mass	(1)	(10)	(14)	(17)	(0)	(0)
Basal Cell Adenoma						
Keratoacanthoma		4 (40%)				
Sarcoma			2 (14%)			
Squamous Cell Carcinoma		2 (20%)	10 (71%)	16 (94%)		
Squamous Cell Carcinoma, Multiple		2 (20%)				
Squamous Cell Papilloma	1 (100%)	6 (60%)	8 (57%)	12 (71%)		
Squamous Cell Papilloma, Multiple		6 (60%)	2 (14%)	2 (12%)		
Subcut Tiss, Sarcoma			6 (43%)	8 (47%)		
Skin, SOA-No Mass	(27)	(28)	(28)	(29)	(0)	(0)
Squamous Cell Carcinoma						
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
None						
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
None						
SYSTEMIC LESIONS						
Multiple Organ	*(30)	*(30)	*(30)	*(30)		

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

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Lab: BAT

SEN CAR 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 Undifferentiated Cell Type						

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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SEN CAR 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)			8	20		28
Total Primary Neoplasms			10	24		41
Total Animals with Benign Neoplasms			3	4		8
Total Benign Neoplasms			3	4		9
Total Animals with Malignant Neoplasms			7	19		28
Total Malignant Neoplasms			7	20		32
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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SENCAR 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)	1	10	13	18		
Total Primary Neoplasms	1	20	28	40		
Total Animals with Benign Neoplasms	1	8	5	7		
Total Benign Neoplasms	1	16	10	14		
Total Animals with Malignant Neoplasms		2	9	13		
Total Malignant Neoplasms		4	18	26		
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