

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:48
First Dose M/F: NA / NA
Lab: BAT

C Number: C61994C
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: 04/29/1994

Experiment Number: 05117-07

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

SENCAR Mouse Male	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VEHICLE CONTROL	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	0

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin

+ +

Skin, SOA-No Mass

+ + + + + + + + + + +

Musculoskeletal System

NONE

Nervous System

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

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Time Report Requested: 18:11:48

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SEN CAR

Lab: BAT

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEN CAR Mouse Male | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| VEHICLE CONTROL | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

NONE

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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Time Report Requested: 18:11:48
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
VEHICLE CONTROL

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin 28

Skin, SOA-No Mass 2

Musculoskeletal System

NONE

Nervous System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

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

DAY ON TEST

SENCAR Mouse Male
VEHICLE CONTROL

ANIMAL ID

*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ 30

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

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CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

| SENCAR Mouse Male
DMBA0.25 /TPA 1 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 3 | 3 | 2 | 3 | 3 | 2 | 0 | 2 | 1 | 3 | 2 | 3 | 0 | 1 | 1 | 2 | 2 | 3 | 1 | 0 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | |
| | 6 | 6 | 5 | 2 | 6 | 8 | 7 | 4 | 6 | 6 | 8 | 6 | 8 | 2 | 2 | 9 | 8 | 2 | 2 | 7 | 7 | 8 | 6 | 2 | 4 | 6 | 7 | 9 | 6 | 2 | |
| | 3 | 3 | 3 | 4 | 3 | 7 | 7 | 4 | 2 | 3 | 8 | 3 | 0 | 7 | 7 | 7 | 7 | 6 | 3 | 9 | 9 | 5 | 9 | 2 | 7 | 0 | 9 | 1 | 7 | 3 | 7 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|--|---|---|---|--|---|---|---|---|---|---|---|--|---|---|---|--|--|---|---|---|---|---|--|---|---|---|---|---|---|--|--|--|
| Skin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Control | + | + | | + | + | + | | + | + | + | + | + | + | + | | + | | | | | + | + | + | + | + | | + | + | + | + | + | | | | |
| Skin, SOA-Mass | | + | | + | + | | | | | | | + | | | | | + | + | | | | | | | + | | | | | | | + | | | |
| Keratoacanthoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue
 M ..Missing tissue
 A ..Autolysis precludes evaluation
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Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SENCAR Mouse Male | | 3 | 3 | 2 | 3 | 3 | 2 | 0 | 2 | 1 | 3 | 2 | 3 | 0 | 1 | 1 | 2 | 2 | 3 | 1 | 0 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | |
| | | 6 | 6 | 5 | 2 | 6 | 8 | 7 | 4 | 6 | 6 | 8 | 6 | 8 | 2 | 2 | 9 | 8 | 2 | 2 | 7 | 7 | 8 | 6 | 2 | 4 | 6 | 7 | |
| | DMBA0.25 /TPA 1 | 3 | 3 | 3 | 4 | 3 | 7 | 7 | 4 | 2 | 3 | 8 | 3 | 0 | 7 | 7 | 7 | 6 | 3 | 9 | 9 | 5 | 9 | 2 | 7 | 0 | 9 | 1 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| | Squamous Cell Papilloma | | X | | X | | | | | | | X | | | | | | | | | | | | | | | | | |
| | Squamous Cell Papilloma, Multiple | | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| | Skin, SOA-No Mass | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

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Lab: BAT

DAY ON TEST

SENCAR Mouse Male
DMBA0.25 /TPA 1

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | |
|-----------------------------------|----|
| Skin | 6 |
| Skin, Control | 23 |
| Skin, SOA-Mass | 8 |
| Keratoacanthoma | 1 |
| Squamous Cell Carcinoma | 4 |
| Squamous Cell Carcinoma, Multiple | 2 |
| Squamous Cell Papilloma | 3 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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DAY ON TEST

SENCAR Mouse Male
DMBA0.25 /TPA 1

| ANIMAL ID | *TOTALS |
|-----------------------------------|---------|
| Squamous Cell Papilloma, Multiple | 1 |
| Skin, SOA-No Mass | 30 |
| Musculoskeletal System | |
| NONE | |
| Nervous System | |
| NONE | |
| Respiratory System | |
| NONE | |
| Special Senses System | |
| NONE | |
| Urinary System | |
| NONE | |
| SYSTEMIC LESIONS | |
| Multiple Organ | 30 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
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First Dose M/F: NA / NA
Lab: BAT

| SEN CAR Mouse Male
DMBA 2.5 /TPA 1 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 3 | 0 | 1 | 3 | 0 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 0 | 1 | 1 | 2 | 2 | 3 | 1 | 2 | 1 | 3 | 3 | 2 | 1 | 2 | 2 | 2 | 1 |
| | 4 | 6 | 2 | 4 | 1 | 2 | 2 | 3 | 9 | 4 | 7 | 2 | 1 | 3 | 9 | 7 | 3 | 4 | 8 | 6 | 0 | 7 | 4 | 3 | 5 | 7 | 9 | 2 | 7 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin | | | | + | | | | | | | | + | | | | | | | + | | | | | | | | | | | | + |
| Skin, Control | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin, SOA-Mass | + | + | | | | | + | + | | | | | + | + | + | | | | + | | | | + | | | | | + | + | + | + |
| Squamous Cell Carcinoma | | | X | | | | | X | | | | | | X | X | X | | | X | | | | | | | | | | X | | |
| Squamous Cell Carcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | X | X | | | | | | | | | X | | | X | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 3 | 0 | 1 | 3 | 0 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 0 | 1 | 1 | 2 | 2 | 3 | 1 | 2 | 1 | 3 | 3 | 2 | 1 | 2 | 2 | 2 | 1 | | |
| | | 2 | 1 | 6 | 2 | 9 | 6 | 0 | 6 | 9 | 4 | 6 | 7 | 9 | 1 | 9 | 8 | 3 | 2 | 9 | 1 | 5 | 2 | 0 | 6 | 6 | 9 | 7 | 0 | 5 | 8 | |
| | | 4 | 6 | 2 | 4 | 1 | 2 | 2 | 3 | 9 | 4 | 7 | 2 | 1 | 3 | 9 | 7 | 3 | 4 | 8 | 6 | 0 | 7 | 4 | 3 | 5 | 7 | 9 | 2 | 7 | 1 | |
| SENCAR Mouse Male
DMBA 2.5 /TPA 1 | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | |
| Squamous Cell Papilloma, Multiple | | X | | | | | | X | | | | | X | | | | | | | | | | | | X | | | | X | | | |
| Skin, SOA-No Mass | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:48
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
DMBA 2.5 /TPA 1

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | |
|-----------------------------------|----|
| Skin | 5 |
| Skin, Control | 23 |
| Skin, SOA-Mass | 14 |
| Squamous Cell Carcinoma | 7 |
| Squamous Cell Carcinoma, Multiple | 2 |
| Squamous Cell Papilloma | 4 |
| Squamous Cell Papilloma, Multiple | 5 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:48
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
DMBA 2.5 /TPA 1

| ANIMAL ID | *TOTALS |
|-------------------------------|---------|
| Skin, SOA-No Mass | 30 |
| Musculoskeletal System | |
| NONE | |
| Nervous System | |
| NONE | |
| Respiratory System | |
| NONE | |
| Special Senses System | |
| NONE | |
| Urinary System | |
| NONE | |
| SYSTEMIC LESIONS | |
| Multiple Organ | 30 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:48
First Dose M/F: NA / NA
Lab: BAT

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SENCAR Mouse Male | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | 1 | 3 | 2 | 2 | 2 | 3 | 2 | 1 | 0 | 1 | 2 | 1 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | | | | | | | |
| | 6 | 5 | 6 | 9 | 4 | 0 | 8 | 3 | 9 | 4 | 8 | 2 | 6 | 4 | 9 | 4 | 6 | 6 | 6 | 6 | 2 | 5 | 4 | 5 | 3 | 6 | 5 | 6 | 6 | 6 | 1 | 7 | 4 | | | | | | | |
| DMBA 25 /TPA 1 | 2 | 5 | 0 | 3 | 4 | 3 | 1 | 3 | 9 | 8 | 9 | 9 | 5 | 0 | 6 | 7 | 5 | 2 | 1 | 4 | 7 | 0 | 1 | 1 | 4 | 3 | 3 | 1 | 7 | 4 | | | | | | | | | | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Skin | | | | + | | | + | | + | | | | | | | | | + | | | | | | | | | + | | | | + | + | | | | | | | | | |
| Skin, Control | + | + | + | + | + | + | + | | + | + | + | + | | + | | + | + | | + | + | | | | | | | | + | | + | | | + | + | | | + | + | | | |
| Skin, SOA-Mass | + | + | | + | + | + | | | | | | | | + | + | + | + | + | + | + | | | | | | | + | | | + | + | + | + | + | + | + | + | + | + | | |
| Keratoacanthoma, Multiple | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | X | |
| Squamous Cell Carcinoma | X | X | | | X | | | | | | X | X | X | X | X | X | X | X | | | X | | | | X | | | | | | X | X | X | X | X | X | | | | | |
| Squamous Cell Carcinoma, Multiple | | | | X | | X | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:11:49

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SENCAR Mouse Male | 1 | 3 | 2 | 2 | 2 | 3 | 2 | 1 | 0 | 1 | 2 | 1 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 3 |
| DMBA 25 /TPA 1 | 6 | 5 | 6 | 9 | 4 | 0 | 8 | 3 | 9 | 4 | 8 | 2 | 6 | 4 | 9 | 4 | 6 | 6 | 6 | 6 | 2 | 5 | 4 | 5 | 3 | 6 | 5 | 6 | 6 |
| | 2 | 5 | 0 | 3 | 4 | 3 | 1 | 3 | 9 | 8 | 9 | 9 | 5 | 0 | 6 | 7 | 5 | 2 | 1 | 4 | 7 | 0 | 1 | 1 | 4 | 3 | 3 | 1 | 7 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Squamous Cell Papilloma | X | | | | | | | | | | | | | | | X | X | | | | | | | | X | | | | |
| Squamous Cell Papilloma, Multiple | | | | | | | | | | | | | | X | X | | | | | | | | | X | X | | | | X |
| Skin, SOA-No Mass | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:49
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
DMBA 25 /TPA 1

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | |
|-----------------------------------|----|
| Skin | 6 |
| Skin, Control | 20 |
| Skin, SOA-Mass | 21 |
| Keratoacanthoma, Multiple | 2 |
| Squamous Cell Carcinoma | 16 |
| Squamous Cell Carcinoma, Multiple | 3 |
| Squamous Cell Papilloma | 4 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:49
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
DMBA 25 /TPA 1

| ANIMAL ID | *TOTALS |
|-----------------------------------|---------|
| Squamous Cell Papilloma, Multiple | 5 |
| Skin, SOA-No Mass | 29 |
| Musculoskeletal System | |
| NONE | |
| Nervous System | |
| NONE | |
| Respiratory System | |
| NONE | |
| Special Senses System | |
| NONE | |
| Urinary System | |
| NONE | |
| SYSTEMIC LESIONS | |
| Multiple Organ | 30 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:49
First Dose M/F: NA / NA
Lab: BAT

| SENCAR Mouse Male
TPA 1/ COMPLETE | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | ANIMAL ID | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 1 | 1 | 2 | 1 | 3 | 3 | 2 | 0 | 3 | 3 | 1 | 3 | 2 | 3 | 2 | 1 | 3 | 3 | 2 | 2 |
| | | 8 | 6 | 6 | 5 | 4 | 7 | 3 | 6 | 4 | 4 | 1 | 5 | 4 | 6 | 3 | 6 | 3 | 8 | 6 | 6 | 3 | 6 | 8 | 6 | 4 | 5 | 6 | 6 | 9 | 3 |
| | | 6 | 3 | 5 | 8 | 4 | 5 | 3 | 3 | 6 | 4 | 3 | 0 | 6 | 4 | 9 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 8 | 3 | 4 | 0 | 3 | 3 | 5 | 4 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--|--|--|---|--|--|---|--|---|--|---|--|--|---|--|---|--|---|--|--|---|--|---|--|--|---|--|---|--|---|--|--|--|--|--|--|--|--|--|--|--|
| Skin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Control | | | | + | | | + | | + | | + | | | + | | + | | + | | | + | | + | | | + | | + | | + | | | | | | | | | | | |
| Skin, SOA-Mass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, SOA-No Mass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:49
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
TPA 1/ COMPLETE

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | |
|-------------------------|----|
| Skin | 2 |
| Skin, Control | 20 |
| Skin, SOA-Mass | 1 |
| Squamous Cell Carcinoma | 1 |
| Skin, SOA-No Mass | 30 |

Musculoskeletal System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:49
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
TPA 1/ COMPLETE

ANIMAL ID

*TOTALS

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ 30

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
 Test Type: INIT/PROMOT
 Route: SKIN APPLICATION|DERMAL,SOLUTION
 Species/Strain: Mouse/SEN CAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
 CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
 Time Report Requested: 18:11:49
 First Dose M/F: NA / NA
 Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEN CAR Mouse Male | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 2 | 1 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 1 | 3 | 2 | 2 | 1 | 3 | 3 | 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 3 | 3 | | |
| | MNNG 100 /TPA 1 | 3 | 9 | 8 | 6 | 1 | 6 | 7 | 0 | 1 | 1 | 6 | 6 | 6 | 8 | 6 | 9 | 6 | 6 | 4 | 6 | 6 | 8 | 9 | 6 | 4 | 6 | 6 | 4 | 6 | 4 | 6 | 6 | 6 | 6 | | |
| | | 4 | 7 | 3 | 0 | 5 | 3 | 1 | 3 | 1 | 7 | 3 | 3 | 3 | 8 | 5 | 9 | 3 | 0 | 6 | 9 | 3 | 7 | 7 | 1 | 7 | 2 | 6 | 3 | 9 | 3 | | | | | | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | | | | |

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Skin | + | | + | | | | | + | | | | | | | | + | + | | | + | | | | | | | | | | | | | | | | | | | | |
| Skin, Control | | + | + | + | + | | + | | | + | | | + | + | + | + | + | + | + | + | | + | | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skin, SOA-Mass | | | | | | | + | | + | | + | + | + | | | | | | | | + | + | | + | + | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | X | | | | | | | | X | | | | | X | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma, Multiple | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue
 M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05117-07

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:11:49

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

| SENCAR Mouse Male
MNNG 100 /TPA 1 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 1 | 2 | 1 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 1 | 3 | 2 | 2 | 1 | 3 | 3 | 1 | 1 | 2 | 1 | 2 | 3 | 1 | 3 |
| | 3 | 9 | 8 | 6 | 1 | 6 | 7 | 0 | 1 | 1 | 6 | 6 | 6 | 8 | 6 | 9 | 6 | 6 | 4 | 6 | 6 | 4 | 6 | 8 | 9 | 6 | 4 | 6 | 4 | 6 |
| | 4 | 7 | 3 | 0 | 5 | 3 | 1 | 3 | 1 | 7 | 3 | 3 | 3 | 8 | 5 | 9 | 3 | 0 | 6 | 9 | 3 | 7 | 7 | 1 | 7 | 2 | 6 | 3 | 9 | 3 |
| Squamous Cell Papilloma, Multiple | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Skin, SOA-No Mass | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Musculoskeletal System | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| NONE | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| Nervous System | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| Respiratory System | | | | | | X | | | | | X | X | | | | | | | | | | | | | | | | | | |
| SPECIAL SENSES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:49
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
MNNG 100 /TPA 1

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | |
|-----------------------------------|----|
| Skin | 7 |
| Skin, Control | 21 |
| Skin, SOA-Mass | 10 |
| Squamous Cell Carcinoma | 3 |
| Squamous Cell Carcinoma, Multiple | 2 |
| Squamous Cell Papilloma | 1 |
| Squamous Cell Papilloma, Multiple | 3 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:49
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
MNNG 100 /TPA 1

| ANIMAL ID | *TOTALS |
|-------------------------------|---------|
| Skin, SOA-No Mass | 30 |
| Musculoskeletal System | |
| NONE | |
| Nervous System | |
| NONE | |
| Respiratory System | |
| NONE | |
| Special Senses System | |
| NONE | |
| Urinary System | |
| NONE | |
| SYSTEMIC LESIONS | |
| Multiple Organ | 30 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:11:49

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SENCAR Mouse Male | 2 | 2 | 0 | 0 | 3 | 0 | 2 | 2 | 0 | 1 | 2 | 2 | 0 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| MNNG1000 /TPA 1 | 6 | 1 | 8 | 3 | 6 | 9 | 2 | 1 | 5 | 5 | 7 | 7 | 9 | 4 | 4 | 6 | 4 | 8 | 2 | 2 | 5 | 5 | 8 | 9 | 4 | 6 | 9 | 6 | 9 | 5 |
| | 0 | 2 | 3 | 8 | 3 | 9 | 4 | 1 | 0 | 6 | 3 | 4 | 1 | 4 | 8 | 9 | 8 | 2 | 0 | 6 | 9 | 6 | 3 | 7 | 8 | 0 | 9 | 7 | 7 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|--|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|--|
| Skin | | | | | | | | | | | | | | | | + | | | | | + | + | | | | | | + | + | | | | + | |
| Skin, Control | + | + | | | | | | | | + | + | | | | | | + | | | | | | | | | | | | | + | | | | |
| Skin, SOA-Mass | + | | | | | | | | | + | + | + | + | + | + | | | | + | | | | | + | + | | | | | + | + | | | |
| Basal Cell Carcinoma | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | X | | | | | | X | | | X | X | | | | | | X | X | | X | | X | X | X | X | X | X | X | X | X | X | | X | |
| Squamous Cell Carcinoma, Multiple | | | | | | | | X | X | | | X | | | | | | | | | | | | | | | | | | | | | X | |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 05117-07

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:11:50

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| SENCAR Mouse Male | 2 | 2 | 0 | 0 | 3 | 0 | 2 | 2 | 0 | 1 | 2 | 2 | 0 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | |
| MNNG1000 /TPA 1 | 6 | 1 | 8 | 3 | 6 | 9 | 2 | 1 | 5 | 5 | 7 | 7 | 9 | 4 | 4 | 6 | 4 | 8 | 2 | 2 | 5 | 5 | 8 | 9 | 4 | 6 | 9 | 6 | 9 | 6 | 9 | 5 | | | | | | | |
| | 0 | 2 | 3 | 8 | 3 | 9 | 4 | 1 | 0 | 6 | 3 | 4 | 1 | 4 | 8 | 9 | 8 | 2 | 0 | 6 | 9 | 6 | 3 | 7 | 8 | 0 | 9 | 7 | 7 | 7 | 0 | 0 | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | X | | | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcut Tiss, Sarcoma | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, SOA-No Mass | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Subcut Tiss, Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:50
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
MNNG1000 /TPA 1

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | |
|-----------------------------------|----|
| Skin | 6 |
| Skin, Control | 12 |
| Skin, SOA-Mass | 20 |
| Basal Cell Carcinoma | 1 |
| Squamous Cell Carcinoma | 14 |
| Squamous Cell Carcinoma, Multiple | 4 |
| Squamous Cell Papilloma | 2 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:50
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
MNNG1000 /TPA 1

| ANIMAL ID | *TOTALS |
|-----------------------------------|---------|
| Squamous Cell Papilloma, Multiple | 2 |
| Subcut Tiss, Sarcoma | 1 |
| Skin, SOA-No Mass | 29 |
| Subcut Tiss, Sarcoma | 1 |
| Musculoskeletal System | |
| NONE | |
| Nervous System | |
| NONE | |
| Respiratory System | |
| NONE | |
| Special Senses System | |
| NONE | |
| Urinary System | |
| NONE | |
| SYSTEMIC LESIONS | |
| Multiple Organ | 30 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:50
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
SENTINEL MALE

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:50
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
SENTINEL MALE

ANIMAL ID

*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ

0

END OF MALE DATA

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:11:50

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SENCAR Mouse Female | 3 | 1 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 |
| VEHICLE CONTROL | 6 | 5 | 6 | 6 | 6 | 1 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 1 | |
| | 3 | 8 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 |

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Mammary Gland

+

Carcinoma Nos

X

Skin

+ +

Skin, SOA-No Mass

+

Musculoskeletal System

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 05117-07

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:11:50

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SENCAR Mouse Female | 3 | 1 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | |
| VEHICLE CONTROL | 6 | 5 | 6 | 6 | 6 | 1 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 1 | |
| ANIMAL ID | 3 | 8 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

NONE
Nervous System
 NONE
Respiratory System
 NONE
Special Senses System
 NONE
Urinary System
 NONE
SYSTEMIC LESIONS
 Multiple Organ

+ +

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue
 M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:50
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
VEHICLE CONTROL

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | |
|-------------------|----|
| Mammary Gland | 1 |
| Carcinoma Nos | 1 |
| Skin | 29 |
| Skin, SOA-No Mass | 1 |

Musculoskeletal System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:50
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
VEHICLE CONTROL

ANIMAL ID

*TOTALS

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ

30

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
 Test Type: INIT/PROMOT
 Route: SKIN APPLICATION|DERMAL,SOLUTION
 Species/Strain: Mouse/SEN CAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
 CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
 Time Report Requested: 18:11:50
 First Dose M/F: NA / NA
 Lab: BAT

| SEN CAR Mouse Female
DMBA0.25 /TPA 1 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 3 | 2 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 1 | 0 | 6 | 6 | 2 | 9 | 2 | 9 | 8 | 9 | 5 | 1 | 4 | 6 | 6 | 4 | 9 | 6 | 3 | 6 | 6 | 4 | 4 | 1 | 1 | 5 | 8 | 8 |
| | 7 | 3 | 6 | 6 | 3 | 3 | 0 | 3 | 0 | 8 | 7 | 9 | 7 | 6 | 7 | 3 | 3 | 2 | 9 | 3 | 6 | 3 | 3 | 7 | 4 | 3 | 1 | 9 | 6 | 9 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

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 | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Control | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin, SOA-Mass | + | | | | + | | | | + | | | | + | | | | + | | | | + | | | | | | | | | |
| Squamous Cell Carcinoma | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma | X | | | | X | | | | X | | | | X | | | | X | | | | X | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05117-07

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:11:50

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SENCAR Mouse Female | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 3 | 2 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 |
| DMBA0.25 /TPA 1 | 6 | 6 | 1 | 0 | 6 | 6 | 2 | 9 | 2 | 9 | 8 | 9 | 5 | 1 | 4 | 6 | 6 | 4 | 9 | 6 | 3 | 6 | 6 | 4 | 4 | 1 | 1 | 5 | 8 | 8 |
| | 7 | 3 | 6 | 6 | 3 | 3 | 0 | 3 | 0 | 8 | 7 | 9 | 7 | 6 | 7 | 3 | 3 | 2 | 9 | 3 | 6 | 3 | 3 | 7 | 4 | 3 | 1 | 9 | 6 | 9 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| Squamous Cell Papilloma, Multiple | | | | | X | | | | | | | | | | | | | X | X | | | | | | | | | | | |
| Skin, SOA-No Mass | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:50
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
DMBA0.25 /TPA 1

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | |
|-----------------------------------|----|
| Skin | 3 |
| Squamous Cell Papilloma | 1 |
| Skin, Control | 25 |
| Skin, SOA-Mass | 9 |
| Squamous Cell Carcinoma | 2 |
| Squamous Cell Papilloma | 6 |
| Squamous Cell Papilloma, Multiple | 3 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:50
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
DMBA0.25 /TPA 1

ANIMAL ID

*TOTALS

| | |
|-------------------------------|----|
| Skin, SOA-No Mass | 30 |
| Musculoskeletal System | |
| NONE | |
| Nervous System | |
| NONE | |
| Respiratory System | |
| NONE | |
| Special Senses System | |
| NONE | |
| Urinary System | |
| NONE | |
| SYSTEMIC LESIONS | |
| Multiple Organ | 30 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 051117-07

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:11:51

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SENCAR Mouse Female | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 1 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 1 | 0 | 2 | 3 | 2 | 3 | 2 |
| DMBA 2.5 /TPA 1 | 6 | 0 | 9 | 1 | 0 | 3 | 6 | 3 | 0 | 6 | 5 | 6 | 7 | 0 | 4 | 2 | 4 | 0 | 8 | 7 | 2 | 1 | 6 | 6 | 6 | 5 | 6 | 8 | 6 | 5 |
| | 3 | 7 | 7 | 2 | 3 | 0 | 3 | 9 | 6 | 1 | 0 | 3 | 4 | 3 | 5 | 3 | 5 | 3 | 9 | 3 | 1 | 1 | 3 | 9 | 3 | 3 | 3 | 8 | 3 | 7 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| Squamous Cell Carcinoma | | X | | | | | X | | | X | | X | | | X | | X | | X | | X | | X | | | X | | | | |
| Squamous Cell Carcinoma, Multiple | | | | X | | | | | | | | | X | X | | | | | | | X | | | | | | | | | |
| Squamous Cell Papilloma | X | | X | X | | X | | | | | | | X | X | | | | | | | X | | | | | | | | | |
| Squamous Cell Papilloma, Multiple | | | | | | | X | | X | | | | | X | | | | | | | | | | | | | | | | X |
| Skin, SOA-No Mass | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:51
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
DMBA 2.5 /TPA 1

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | |
|---------------------------|----|
| Skin | 4 |
| Basal Cell Carcinoma | 1 |
| Skin, Control | 26 |
| Skin, SOA-Mass | 20 |
| Keratoacanthoma | 1 |
| Keratoacanthoma, Multiple | 1 |
| Squamous Cell Carcinoma | 10 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:51
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
DMBA 2.5 /TPA 1

| ANIMAL ID | *TOTALS |
|-----------------------------------|---------|
| Squamous Cell Carcinoma, Multiple | 4 |
| Squamous Cell Papilloma | 7 |
| Squamous Cell Papilloma, Multiple | 4 |
| Skin, SOA-No Mass | 30 |
| Musculoskeletal System | |
| NONE | |
| Nervous System | |
| NONE | |
| Respiratory System | |
| NONE | |
| Special Senses System | |
| NONE | |
| Urinary System | |
| NONE | |
| SYSTEMIC LESIONS | |
| Multiple Organ | 30 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 051117-07
 Test Type: INIT/PROMOT
 Route: SKIN APPLICATION|DERMAL,SOLUTION
 Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
 CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
 Time Report Requested: 18:11:51
 First Dose M/F: NA / NA
 Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SENCAR Mouse Female | 2 | 2 | 3 | 3 | 2 | 3 | 1 | 1 | 2 | 1 | 3 | 2 | 1 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 3 | |
| | 5 | 6 | 3 | 2 | 8 | 2 | 9 | 8 | 2 | 9 | 0 | 7 | 5 | 9 | 0 | 7 | 1 | 5 | 4 | 7 | 9 | 8 | 7 | 9 | 1 | 0 | 2 | 6 | 5 | 6 |
| | 3 | 1 | 0 | 3 | 0 | 2 | 8 | 3 | 6 | 9 | 3 | 2 | 0 | 8 | 7 | 2 | 1 | 1 | 6 | 1 | 6 | 8 | 8 | 3 | 7 | 3 | 7 | 1 | 5 | 3 |
| DMBA 25 /TPA 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| Squamous Cell Papilloma | | | | | | | | | X | X | X | X | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma, Multiple | X | | X | X | | X | | | | | | X | | | X | X | | | | | X | X | | | | | | | | |
| Skin, SOA-No Mass | + | + | | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue
 M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:51
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
DMBA 25 /TPA 1

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | |
|-----------------------------------|----|
| Skin | 2 |
| Skin, Control | 19 |
| Skin, SOA-Mass | 25 |
| Keratoacanthoma | 1 |
| Squamous Cell Carcinoma | 12 |
| Squamous Cell Carcinoma, Multiple | 7 |
| Squamous Cell Papilloma | 5 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:51
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
DMBA 25 /TPA 1

| ANIMAL ID | *TOTALS |
|-----------------------------------|---------|
| Squamous Cell Papilloma, Multiple | 9 |
| Skin, SOA-No Mass | 28 |
| Musculoskeletal System | |
| NONE | |
| Nervous System | |
| NONE | |
| Respiratory System | |
| NONE | |
| Special Senses System | |
| NONE | |
| Urinary System | |
| NONE | |
| SYSTEMIC LESIONS | |
| Multiple Organ | 30 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:51
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
TPA 1/ COMPLETE

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | |
|-------------------------|----|
| Skin | 2 |
| Skin, Control | 24 |
| Skin, SOA-Mass | 2 |
| Squamous Cell Papilloma | 1 |
| Skin, SOA-No Mass | 30 |

Musculoskeletal System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:51
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
TPA 1/ COMPLETE

ANIMAL ID

*TOTALS

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ 30

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:11:51

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|-------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SENCAR Mouse Female | | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 1 | 3 | 3 | 1 | 2 | 3 | 1 | 2 | 2 | 3 | 3 | 2 | |
| | MNNG 100 /TPA 1 | 1 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 1 | 6 | 6 | 6 | 6 | 4 | 5 | 6 | 1 | 6 | 3 | 6 | 6 | 0 | 6 | 6 | 6 | 3 | 8 | 6 | 3 | 9 |
| | | 6 | 0 | 3 | 3 | 1 | 3 | 3 | 3 | 8 | 3 | 3 | 7 | 9 | 0 | 9 | 3 | 2 | 3 | 3 | 3 | 3 | 8 | 0 | 3 | 0 | 3 | 9 | 3 | 0 | 7 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | Skin, SOA-No Mass | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:52
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
MNNG 100 /TPA 1

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | |
|-----------------------------------|----|
| Skin | 3 |
| Skin, Control | 16 |
| Skin, SOA-Mass | 16 |
| Squamous Cell Carcinoma | 6 |
| Squamous Cell Papilloma | 3 |
| Squamous Cell Papilloma, Multiple | 7 |
| Skin, SOA-No Mass | 29 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:52
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
MNNG 100 /TPA 1

ANIMAL ID

*TOTALS

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ

30

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 051117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:11:52

First Dose M/F: NA / NA

Lab: BAT

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SENCAR Mouse Female | 3 | 3 | 2 | 0 | 2 | 1 | 2 | 2 | 3 | 3 | 1 | 1 | 0 | 3 | 3 | 0 | 1 | 1 | 0 | 1 | 2 | 2 | 2 | 0 | 0 | 1 | 2 | 0 | 0 |
| MNNG1000 /TPA 1 | 6 | 6 | 4 | 7 | 4 | 7 | 2 | 9 | 6 | 0 | 2 | 9 | 4 | 0 | 0 | 4 | 0 | 5 | 5 | 3 | 2 | 5 | 5 | 9 | 9 | 5 | 6 | 5 | 5 |
| | 2 | 3 | 0 | 7 | 6 | 4 | 7 | 7 | 3 | 0 | 7 | 7 | 2 | 3 | 3 | 2 | 8 | 5 | 7 | 4 | 5 | 1 | 3 | 1 | 7 | 0 | 0 | 2 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Squamous Cell Papilloma, Multiple | | | X | | | | | X | | | | | | | | | | | | | X | | | | | | | | |
| Subcut Tiss, Sarcoma | | | | | | | X | | | | | | X | | | | | | | | | | | | | X | | | |
| Subcut Tiss, Sarcoma, Multiple | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, SOA-No Mass | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:52
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
MNNG1000 /TPA 1

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | |
|-----------------------------------|----|
| Skin | 6 |
| Skin, Control | 14 |
| Skin, SOA-Mass | 16 |
| Squamous Cell Carcinoma | 6 |
| Squamous Cell Carcinoma, Multiple | 2 |
| Squamous Cell Papilloma | 2 |
| Squamous Cell Papilloma, Multiple | 3 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:52
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
MNNG1000 /TPA 1

| ANIMAL ID | *TOTALS |
|--------------------------------|---------|
| Subcut Tiss, Sarcoma | 3 |
| Subcut Tiss, Sarcoma, Multiple | 1 |
| Skin, SOA-No Mass | 28 |
| Musculoskeletal System | |
| NONE | |
| Nervous System | |
| NONE | |
| Respiratory System | |
| NONE | |
| Special Senses System | |
| NONE | |
| Urinary System | |
| NONE | |
| SYSTEMIC LESIONS | |
| Multiple Organ | 30 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:52
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
SENTINEL FEMALE

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05117-07
Test Type: INIT/PROMOT
Route: SKIN APPLICATION|DERMAL,SOLUTION
Species/Strain: Mouse/SENCAR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
Time Report Requested: 18:11:52
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
SENTINEL FEMALE

ANIMAL ID

*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ

0

**** END OF REPORT ****

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically