

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:37
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

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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 | 0 | 0 | 0 | 0 | 0 |
| SENCAR Mouse Male VEHICLE CONTROL | | 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 | 3 | 3 | 3 | 3 | |
| | | 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 | 6 | 6 | 6 | |
| | | 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 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 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

Skin

+ +

Skin, SOA-No Mass

+ + + + + + + + + +

Acanthosis

1 2

Inflammation, Chronic Active

1 1

Musculoskeletal System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

A ..Autolysis precludes evaluation

1) Minimal 3) Moderate

I ..Insufficient tissue

BLANK ..Not examined microscopically

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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 | | |
| Acanthosis | 2 | 1.5 | |
| Inflammation, Chronic Active | 2 | 1.0 | |

Musculoskeletal System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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DAY ON TEST

SENCAR Mouse Male
VEHICLE CONTROL

ANIMAL ID

*TOTALS

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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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 | 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 | 1 | 3 | 1 |
| | ANIMAL ID | 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 | 6 | 3 | 9 | 9 | 5 | 9 | 2 | 7 | 0 | 9 | 1 | 7 | 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 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acanthosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Control | + | + | | + | + | + | | + | + | + | + | + | + | | + | | | | | + | + | + | + | + | | + | + | + | + | + | + | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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M ..Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

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1) Minimal 3) Moderate

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First Dose M/F: NA / NA

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 | 6 | 3 | 9 | 9 | 5 | 9 | 2 | 7 | 0 | 9 | 1 | 7 | 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 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 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 |
| Acanthosis | 2 | 2 | | 2 | 2 | 3 | | 3 | 3 | 3 | 3 | 3 | 2 | 3 | | 1 | | | | 2 | 2 | 2 | 1 | 1 | | 2 | 2 | 1 | 2 | 2 |
| Inflammation, Chronic Active | | | 1 | | 4 | 2 | 4 | | 2 | 1 | 1 | 1 | 1 | | | | | | | 2 | 1 | 1 | 1 | 1 | | | 1 | 1 | | 2 |
| Ulcer | | | | | 4 | | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, SOA-Mass | | | + | | + | + | | | | | | + | | | | | + | + | | | | | + | | | | | | + | |
| Skin, SOA-No Mass | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Acanthosis | 3 | 4 | 3 | 3 | 2 | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| Hair Follicle, Cyst | | | | | | | | | X | | | | | X | | X | | | | | | | | | X | | X | | | |
| Inflammation, Chronic Active | 2 | 2 | 4 | 2 | 2 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 2 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 4 | 4 | 4 | 4 | 3 | 4 |
| Ulcer | | | | 4 | | 4 | 4 | 4 | | | 4 | | | | | | | | | | 4 | | 4 | | | | | | 4 | |
| Ulcer, Multiple | | | | | | | | | 4 | | | | 4 | 4 | 4 | 4 | | | 4 | 4 | 4 | | 4 | | | | 4 | 4 | | 4 |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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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 | |
| Acanthosis | 6 | 2.8 |
| Inflammation, Chronic Active | 6 | 3.8 |
| Ulcer | 3 | 4.0 |
| Ulcer, Multiple | 3 | 4.0 |
| Skin, Control | 23 | |
| Acanthosis | 23 | 2.1 |

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+ ..Tissue examined microscopically

X ..Lesion present

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Lab: BAT

DAY ON TEST

**SENCAR Mouse Male
DMBA0.25 /TPA 1**

| ANIMAL ID | *TOTALS | |
|------------------------------|---------|-----|
| Inflammation, Chronic Active | 17 | 1.6 |
| Ulcer | 2 | 4.0 |
| Skin, SOA-Mass | 8 | |
| Skin, SOA-No Mass | 30 | |
| Acanthosis | 30 | 3.0 |
| Hair Follicle, Cyst | 5 | |
| Inflammation, Chronic Active | 30 | 3.4 |
| Ulcer | 9 | 4.0 |
| Ulcer, Multiple | 12 | 4.0 |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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| | | 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 | |
| | | 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 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | |
| | DMBA 2.5 /TPA 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 | 1 | 1 | 1 | 1 | 1 | |
| | ANIMAL ID | 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 | 1 | 1 | 1 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 8 | 8 | 8 | 8 | 8 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | |

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acanthosis | | | | + | | | | | | | + | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | 4 | | | | | | | 4 | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Control | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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| SENCAR 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 | 0 | | |
| ANIMAL ID | 3 | 0 | 1 | 3 | 0 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 0 | 1 | 1 | 2 | 2 | 3 | 1 | 2 | 1 | 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 | |
| Acanthosis | 3 | | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | | 1 | 2 | 1 | 3 | | | 2 | 3 | 1 | | 3 | | | 3 | 3 | 1 | 1 | 1 | |
| Hair Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Inflammation, Chronic Active | 4 | | | 2 | | 1 | 1 | 1 | | 1 | 1 | | | 2 | 2 | 1 | | | 4 | 4 | 1 | | 1 | | | 1 | 1 | | | | |
| Ulcer | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, SOA-Mass | + | | + | | | | | + | + | | | | + | | | | | + | + | + | | + | | | + | + | + | + | + | | |
| Skin, SOA-No Mass | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Acanthosis | 2 | 3 | 3 | 2 | 3 | 4 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 2 | 3 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | |
| Hair Follicle, Cyst | | | | | | | | | | | | | X | X | | | | | X | | X | | | | | | X | X | | | |
| Inflammation, Chronic Active | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 4 | 2 | 4 | 4 | 4 | |
| Ulcer | | | | 4 | 4 | | | 4 | 4 | 4 | | | | | | 4 | 4 | 4 | | 4 | 4 | | | 4 | | 4 | | | 4 | 4 | |
| Ulcer, Multiple | | | | | | 4 | 4 | | | | | 4 | 4 | 4 | 4 | | | | | | | | 4 | 4 | | 4 | | | | | |

Musculoskeletal System

NONE
Nervous System

NONE
Respiratory System

NONE
Special Senses System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

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

1-4 ..Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:38
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 | |
| Acanthosis | 5 | 3.2 |
| Inflammation, Chronic Active | 5 | 4.0 |
| Ulcer | 3 | 4.0 |
| Ulcer, Multiple | 2 | 4.0 |
| Skin, Control | 23 | |
| Acanthosis | 23 | 2.2 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:38
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
DMBA 2.5 /TPA 1

| ANIMAL ID | *TOTALS | |
|------------------------------|---------|-----|
| Hair Follicle, Cyst | 1 | |
| Inflammation, Chronic Active | 16 | 1.8 |
| Ulcer | 2 | 4.0 |
| Ulcer, Multiple | 1 | 4.0 |
| Skin, SOA-Mass | 14 | |
| Skin, SOA-No Mass | 30 | |
| Acanthosis | 30 | 3.2 |
| Hair Follicle, Cyst | 6 | |
| Inflammation, Chronic Active | 30 | 3.5 |
| Ulcer | 14 | 4.0 |
| Ulcer, Multiple | 9 | 4.0 |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P09: NON-NEOPLASTIC LESIONS 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: 18:24:39

First Dose M/F: NA / NA

Lab: BAT

| SENCAR Mouse Male DMBA 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 |
| | 1 | 3 | 2 | 2 | 2 | 3 | 2 | 1 | 0 | 1 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 |
| | 6 | 5 | 6 | 9 | 4 | 0 | 8 | 3 | 9 | 4 | 8 | 2 | 6 | 4 | 9 | 4 | 6 | 6 | 6 | 6 | 6 | 2 | 5 | 4 | 5 | 3 | 6 | 5 | 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 | 1 | 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 | 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 |
| Acanthosis | 2 | 1 | 3 | 3 | 2 | 2 | 2 | | 2 | 2 | 3 | 2 | | 2 | 3 | | 3 | 2 | | | | | 3 | | 2 | | 3 | 2 | |
| Inflammation, Chronic Active | 2 | | 1 | | 1 | 1 | | | 1 | 1 | 4 | 1 | | 1 | | 2 | 1 | | 3 | 1 | | | 2 | | 1 | | 2 | 3 | |
| Ulcer | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | 4 | |
| Skin, SOA-Mass | + | + | | + | + | + | | | | | + | + | + | + | + | + | + | + | + | | + | | | + | + | + | + | + | + |
| Skin, SOA-No Mass | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Acanthosis | 3 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 2 | 2 | 3 | 4 | 4 | 4 | 3 | 3 | 2 | 3 | 3 | 4 | 3 | 4 | 1 |
| Hair Follicle, Cyst | X | | X | X | X | | X | | | | | | | | | | X | X | X | | | | X | | | | | | |
| Inflammation, Chronic Active | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 4 | 2 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 4 | 2 | 3 | |
| Ulcer | | | | | | | | | | | | | 4 | | | 4 | | 4 | | 4 | | | 4 | 4 | | | | | |
| Ulcer, Multiple | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | | 4 | | 4 | | 4 | | 4 | 4 | | | 4 | | | |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:39
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 | | |
| Acanthosis | 5 | 3.2 | |
| Inflammation, Chronic Active | 6 | 4.0 | |
| Ulcer | 3 | 4.0 | |
| Ulcer, Multiple | 2 | 4.0 | |
| Skin, Control | 20 | | |
| Acanthosis | 20 | 2.3 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:39
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
DMBA 25 /TPA 1

ANIMAL ID

***TOTALS**

| | | |
|------------------------------|----|-----|
| Inflammation, Chronic Active | 17 | 1.6 |
| Ulcer | 2 | 4.0 |
| Skin, SOA-Mass | 21 | |
| Skin, SOA-No Mass | 29 | |
| Acanthosis | 29 | 3.1 |
| Hair Follicle, Cyst | 9 | |
| Inflammation, Chronic Active | 28 | 3.4 |
| Ulcer | 6 | 4.0 |
| Ulcer, Multiple | 15 | 4.0 |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-07

P09: NON-NEOPLASTIC LESIONS 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: 18:24:39

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENAR

Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SENAR Mouse Male TPA 1/ COMPLETE | 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 |
| | | 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 |
| 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 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acanthosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acanthosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically M ..Missing tissue 1-4 ..Lesion qualified as:
X ..Lesion present A ..Autolysis precludes evaluation 1) Minimal 3) Moderate
I ..Insufficient tissue BLANK ..Not examined microscopically 2) Mild 4) Marked

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P09: NON-NEOPLASTIC LESIONS 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: 18:24:39

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 | 0 | |
| | 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 |
| 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 | |
| | 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 | 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 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, SOA-Mass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, SOA-No Mass | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Acanthosis | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 2 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 3 | |
| Hair Follicle, Cyst | | | | X | | X | X | | X | X | X | X | | | | X | | | | | | | | X | X | X | X | X | X | |
| Inflammation, Chronic Active | 4 | 1 | 2 | 3 | 4 | 4 | 4 | 1 | 4 | 4 | 2 | 4 | 4 | 4 | 4 | 1 | 4 | 2 | 2 | 1 | 4 | 4 | 2 | 2 | 4 | 4 | 4 | 2 | 4 | 3 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer, Multiple | 4 | | | 4 | 4 | 4 | 4 | | | | 4 | | 4 | 4 | 4 | 4 | | | | | | | | | | | | | | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
1-4 ..Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:39
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 | |
| Acanthosis | 2 | 3.0 |
| Inflammation, Chronic Active | 2 | 4.0 |
| Ulcer | 2 | 4.0 |
| Skin, Control | 20 | |
| Acanthosis | 19 | 2.5 |
| Inflammation, Chronic Active | 11 | 1.6 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:39
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
TPA 1/ COMPLETE

| ANIMAL ID | <u>*TOTALS</u> | |
|------------------------------|----------------|-----|
| Ulcer | 2 | 4.0 |
| Skin, SOA-Mass | 1 | |
| Skin, SOA-No Mass | 30 | |
| Acanthosis | 30 | 3.3 |
| Hair Follicle, Cyst | 15 | |
| Inflammation, Chronic Active | 30 | 3.1 |
| Ulcer | 5 | 4.0 |
| Ulcer, Multiple | 13 | 4.0 |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:39
 First Dose M/F: NA / NA
 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 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| | 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 |
| | 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 | + | + | | | | | | + | | | | | | | | | | + | + | | | | | | | + | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Hair Follicle, Cyst | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + ..Tissue examined microscopically M ..Missing tissue 1-4 ..Lesion qualified as:
 X ..Lesion present A ..Autolysis precludes evaluation 1) Minimal 3) Moderate
 I ..Insufficient tissue BLANK ..Not examined microscopically 2) Mild 4) Marked

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P09: NON-NEOPLASTIC LESIONS 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: 18:24:39

First Dose M/F: NA / NA

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 | 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 | 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 | | |
| Acanthosis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Inflammation, Chronic Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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-Mass | 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 | |
| Acanthosis | 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 | 8 | |
| Ulcer | 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 | | |
| | 2 | 2 | 2 | 2 | | 2 | | | 3 | | | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | | 3 | | 2 | | 2 | 2 | 3 | 3 | 3 | | | |
| | 2 | 2 | | | 1 | | 1 | | | | | 1 | 1 | 1 | | 1 | | | 1 | | 2 | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | | | | | + | | + | | + | + | + | | + | | | | | + | + | | | + | + | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | 4 | | 4 | 3 | 3 | 3 | 3 | | 3 | 3 | | | 3 | 3 | 3 | 2 | 4 | 3 | 2 | 3 | 2 | | 3 | 4 | 4 | 4 | | | 2 | | |
| | | X | X | X | X | | | | | | | X | | | | | | X | X | | X | | | | | | | | | X | X | |
| | 4 | 3 | 4 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 1 | 1 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 4 | 1 | 3 | 3 | 3 | 2 | | 3 | 3 | 3 | 3 | | |
| | 4 | 4 | 4 | 4 | 4 | | 4 | | 4 | 3 | | | 4 | 4 | | 4 | 4 | 4 | 4 | | 3 | 4 | 4 | | | 4 | | 3 | 4 | | | |

Musculoskeletal System

- NONE
- Nervous System
- NONE
- Respiratory System
- NONE
- Special Senses System
- NONE
- Urinary System
- NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
1-4 ..Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:39
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 | | |
| Epithelium, Hyperplasia | 1 | 3.0 | |
| Hair Follicle, Cyst | 1 | | |
| Inflammation, Chronic Active | 5 | 3.0 | |
| Ulcer | 5 | 4.0 | |
| Skin, Control | 21 | | |
| Acanthosis | 21 | 2.2 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:39
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
MNNG 100 /TPA 1

ANIMAL ID

***TOTALS**

| | | |
|------------------------------|----|-----|
| Inflammation, Chronic Active | 16 | 1.2 |
| Skin, SOA-Mass | 10 | |
| Acanthosis | 1 | 2.0 |
| Ulcer | 1 | 4.0 |
| Skin, SOA-No Mass | 30 | |
| Acanthosis | 23 | 3.1 |
| Hair Follicle, Cyst | 10 | |
| Inflammation, Chronic Active | 29 | 2.8 |
| Ulcer | 21 | 3.9 |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P09: NON-NEOPLASTIC LESIONS 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: 18:24:40

First Dose M/F: NA / NA

Lab: BAT

| SENCAR Mouse Male MNNG1000 /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 | | | |
| | 2 | 2 | 0 | 0 | 3 | 0 | 2 | 2 | 0 | 1 | 2 | 2 | 0 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 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 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 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 | | |
| Inflammation, Chronic Active | | | | | | | 1 | | | | | | | | | 3 | 1 | 1 | | 1 | | 1 | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | |
| Skin, SOA-Mass | + | | | | | | | + | + | + | + | + | | | + | | + | + | + | + | | + | | + | + | + | + | + | + | + | + | |
| Skin, SOA-No Mass | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | |
| Acanthosis | 2 | 1 | 2 | 3 | 2 | 1 | 2 | 2 | 3 | 3 | | | 3 | 3 | 2 | 2 | 2 | | | | | | | 3 | | 2 | 3 | 3 | 3 | | 3 | |
| Alopecia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hair Follicle, Cyst | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 2 | 4 | 3 | 4 | 1 | 3 | 1 | 1 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Ulcer | | 4 | 4 | 4 | | 4 | | | 4 | | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | |

Musculoskeletal System

- NONE
- Nervous System
- NONE
- Respiratory System
- NONE
- Special Senses System
- NONE
- Urinary System
- NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
1-4 ..Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:40
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 | | |
| Alopecia | 2 | | |
| Inflammation, Chronic Active | 4 | 3.0 | |
| Ulcer | 4 | 3.8 | |
| Skin, Control | 12 | | |
| Acanthosis | 12 | 1.7 | |
| Inflammation, Chronic Active | 7 | 1.3 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:40
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Male
MNNG1000 /TPA 1

| ANIMAL ID | <u>*TOTALS</u> | |
|------------------------------|----------------|-----|
| Ulcer | 1 | 4.0 |
| Skin, SOA-Mass | 20 | |
| Skin, SOA-No Mass | 29 | |
| Acanthosis | 21 | 2.4 |
| Alopecia | 1 | |
| Hair Follicle, Cyst | 3 | |
| Inflammation, Chronic Active | 29 | 2.7 |
| Ulcer | 21 | 4.0 |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:40
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 lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:40
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

END OF MALE DATA

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:40
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 | | |
| Skin | 29 | | |
| Inflammation, Chronic Active | 1 | 3.0 | |
| Ulcer | 1 | 4.0 | |
| Skin, SOA-No Mass | 1 | | |
| Inflammation, Chronic Active | 1 | 3.0 | |
| Ulcer | 1 | 4.0 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:40
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
VEHICLE CONTROL

ANIMAL ID

*TOTALS

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:40
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 | |
| Acanthosis | 2 | 3.5 |
| Inflammation, Chronic Active | 2 | 4.0 |
| Ulcer | 2 | 4.0 |
| Skin, Control | 25 | |
| Acanthosis | 24 | 2.2 |
| Hair Follicle, Cyst | 2 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:40
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
DMBA0.25 /TPA 1

ANIMAL ID

***TOTALS**

| | | |
|------------------------------|----|-----|
| Inflammation, Chronic Active | 23 | 1.6 |
| Ulcer | 1 | 4.0 |
| Skin, SOA-Mass | 9 | |
| Skin, SOA-No Mass | 30 | |
| Acanthosis | 30 | 3.1 |
| Hair Follicle, Cyst | 12 | |
| Inflammation, Chronic Active | 30 | 3.3 |
| Ulcer | 8 | 4.0 |
| Ulcer, Multiple | 12 | 4.0 |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:41
 First Dose M/F: NA / NA
 Lab: BAT

| SENCAR Mouse Female 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 | 0 | |
| ANIMAL ID | 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 |
| | 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 |
| Hair Follicle, Cyst | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Inflammation, Chronic Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ulcer | 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 |
| Ulcer, Multiple | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 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 |
| Hair Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 2 | 1 | 3 | 4 | 1 | 2 | | | 3 | | 1 | 1 | | | 2 | 1 | 1 | 3 | | 1 | 1 | 2 | 4 | 1 | 1 | 2 | 1 | 1 | 2 | |
| Ulcer | | | | | | | | | | | | | | | | | | 4 | | | | | 4 | | | | | | | |
| Ulcer, Multiple | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, SOA-Mass | + | + | + | + | | + | + | + | + | + | | + | + | + | + | | + | + | + | + | | | | | + | | | | | + |
| Acanthosis | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Skin, SOA-No Mass | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Acanthosis | 4 | 3 | 3 | 4 | 3 | 3 | 2 | 1 | 3 | 3 | 4 | 4 | 1 | 4 | 3 | 3 | 3 | 3 | 4 | 2 | 3 | 4 | 4 | 3 | 3 | 2 | 4 | 4 | 4 | 3 |
| Hair Follicle, Cyst | | | | | X | X | | | | | X | X | | X | | | | X | | | | X | | | | | | | X | |
| Inflammation, Chronic Active | 4 | 4 | 3 | 4 | 4 | 4 | 1 | 1 | 4 | 1 | 4 | 4 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 3 | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 4 |
| Ulcer | | | | 4 | | 4 | | | 4 | | | | | 4 | | | 4 | 4 | 4 | 4 | | 4 | 4 | | 4 | | 4 | | 4 | 4 |
| Ulcer, Multiple | | 4 | | | 4 | | | | | | 4 | | | | 4 | | | | | | | | 4 | | 4 | | | | | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue
 M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically
 1-4 ..Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:41
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 | | |
| Acanthosis | 3 | 3.0 | |
| Inflammation, Chronic Active | 3 | 4.0 | |
| Ulcer | 3 | 4.0 | |
| Skin, Control | 26 | | |
| Acanthosis | 26 | 2.6 | |
| Hair Follicle, Cyst | 1 | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
DMBA 2.5 /TPA 1

| ANIMAL ID | *TOTALS | |
|------------------------------|---------|-----|
| Inflammation, Chronic Active | 23 | 1.8 |
| Ulcer | 2 | 4.0 |
| Ulcer, Multiple | 1 | 4.0 |
| Skin, SOA-Mass | 20 | |
| Acanthosis | 1 | 3.0 |
| Skin, SOA-No Mass | 30 | |
| Acanthosis | 30 | 3.1 |
| Hair Follicle, Cyst | 8 | |
| Inflammation, Chronic Active | 30 | 3.4 |
| Ulcer | 15 | 4.0 |
| Ulcer, Multiple | 6 | 4.0 |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P09: NON-NEOPLASTIC LESIONS 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: 18:24:41

First Dose M/F: NA / NA

Lab: BAT

| SENCAR Mouse Female DMBA 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 | | |
| | 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 | |
| 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 | |
| | 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 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 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 | |
| Inflammation, Chronic Active | | | | | | | | | | 2 | 3 | 3 | 2 | | 1 | | | | | 1 | | | | 2 | 1 | | 2 | | | | |
| Skin, SOA-Mass | + | + | + | + | + | + | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Acanthosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Skin, SOA-No Mass | + | + | | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Acanthosis | 3 | 4 | | 4 | 3 | | 2 | 3 | 3 | 4 | 3 | 3 | 2 | 4 | 2 | 4 | 4 | 3 | 4 | 4 | 3 | 3 | 2 | 3 | 4 | 4 | 3 | 4 | 4 | 2 | |
| Hair Follicle, Cyst | | | X | | | | | X | | | | X | | | | X | X | X | | | X | | | X | X | | | | | | |
| Inflammation, Chronic Active | 1 | 4 | | 4 | 2 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 4 | 2 | 4 | 4 | 4 | 4 | 1 | |
| Ulcer | | | 4 | | 4 | | | 4 | | 4 | 4 | 4 | | | | 4 | 4 | 4 | 4 | 4 | 4 | | | | | | | | | 4 | |
| Ulcer, Multiple | | | | | | | 4 | | 4 | | | | 4 | 4 | | | | | | | | | 4 | | 4 | | 4 | 4 | | 4 | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
1-4 ..Lesion qualified as:
1) Minimal 3) Moderate
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Species/Strain: Mouse/SENCAR

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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 | | |
| Acanthosis | 1 | 4.0 | |
| Inflammation, Chronic Active | 2 | 4.0 | |
| Ulcer | 1 | 4.0 | |
| Skin, Control | 19 | | |
| Acanthosis | 19 | 1.9 | |
| Inflammation, Chronic Active | 9 | 1.9 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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Time Report Requested: 18:24:41
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
DMBA 25 /TPA 1

| | ANIMAL ID | *TOTALS | |
|------------------------------|-----------|---------|-----|
| Skin, SOA-Mass | | 25 | |
| Acanthosis | | 1 | 3.0 |
| Skin, SOA-No Mass | | 28 | |
| Acanthosis | | 28 | 3.3 |
| Hair Follicle, Cyst | | 9 | |
| Inflammation, Chronic Active | | 27 | 3.5 |
| Ulcer | | 13 | 4.0 |
| Ulcer, Multiple | | 9 | 4.0 |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P09: NON-NEOPLASTIC LESIONS 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: 18:24:42

First Dose M/F: NA / NA

Lab: BAT

| SENCAR Mouse Female 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 | 0 | | |
| ANIMAL ID | 3 | 1 | 3 | 1 | 0 | 3 | 3 | 1 | 0 | 1 | 3 | 1 | 3 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 1 | 3 | 2 | 1 | 2 | 2 | 3 | 1 | 3 | | |
| | 4 | 3 | 6 | 9 | 9 | 6 | 6 | 6 | 7 | 2 | 5 | 8 | 6 | 2 | 6 | 9 | 2 | 0 | 6 | 6 | 0 | 6 | 2 | 3 | 4 | 6 | 3 | 6 | 6 | | |
| | 5 | 4 | 3 | 8 | 7 | 3 | 3 | 1 | 7 | 0 | 4 | 3 | 3 | 6 | 9 | 3 | 7 | 2 | 3 | 3 | 6 | 3 | 4 | 3 | 0 | 3 | 3 | 3 | 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 | | |
| | 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 | 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 | | |
| Acanthosis | | 3 | 1 | 3 | 2 | | | 2 | 2 | | 3 | 1 | 2 | 3 | 3 | 3 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 3 | | 3 | 1 | |
| Hair Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | 1 | 1 | 2 | 1 | | | 2 | | | 2 | | | 2 | 1 | 2 | 3 | 2 | 1 | 2 | 1 | | 2 | 2 | 1 | 2 | | 2 | | 2 | |
| Skin, SOA-Mass | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acanthosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, SOA-No Mass | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Acanthosis | | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 3 | 4 | 4 | 2 | 4 | 2 | 4 | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 2 | 3 | 3 | 4 | 4 | |
| Hair Follicle, Cyst | | X | X | | X | X | | X | X | X | | X | | X | | X | X | | | | | | X | X | X | | | | | X | X |
| Inflammation, Chronic Active | | 2 | 4 | 1 | 4 | 2 | 2 | 2 | 4 | 4 | 4 | 1 | 4 | 1 | 4 | 4 | 2 | 4 | 4 | 2 | 3 | 2 | 2 | 4 | 4 | 4 | 2 | 4 | 2 | 4 | 4 |
| Ulcer | | | | 4 | | | | 4 | 4 | | | | | | 4 | | | | | | | | | | | | | | | | 4 |
| Ulcer, Multiple | | 4 | | | | | | | | 4 | | 4 | | 4 | | | | 4 | 4 | | | | | 4 | 4 | 4 | | 4 | | 4 | |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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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 | | |
| Acanthosis | 1 | 2.0 | |
| Alopecia | 1 | | |
| Inflammation, Chronic Active | 1 | 4.0 | |
| Ulcer | 1 | 4.0 | |
| Skin, Control | 24 | | |
| Acanthosis | 24 | 2.3 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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Time Report Requested: 18:24:42
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
TPA 1/ COMPLETE

| ANIMAL ID | *TOTALS | |
|------------------------------|---------|-----|
| Hair Follicle, Cyst | 1 | |
| Inflammation, Chronic Active | 19 | 1.7 |
| Skin, SOA-Mass | 2 | |
| Acanthosis | 1 | 4.0 |
| Skin, SOA-No Mass | 30 | |
| Acanthosis | 30 | 3.3 |
| Hair Follicle, Cyst | 16 | |
| Inflammation, Chronic Active | 30 | 3.0 |
| Ulcer | 5 | 4.0 |
| Ulcer, Multiple | 11 | 4.0 |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P09: NON-NEOPLASTIC LESIONS 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: 18:24:42

First Dose M/F: NA / NA

Lab: BAT

| SENCAR Mouse Female 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 | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 1 | 3 | 3 | 1 | 2 | 3 | 1 | 2 | 2 | 3 | 3 | 2 |
| | 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 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 3 |
| | 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 | 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 |
| Inflammation, Chronic Active | 1 | 1 | 1 | 1 | 2 | | | 1 | | | | | | 1 | 1 | | 1 | | | 1 | | | 1 | 1 | | | 1 | 1 | | 1 |
| Skin, SOA-Mass | + | | | + | | | + | + | | + | + | | + | + | | + | + | | + | + | | | | | | | + | + | + | + |
| Acanthosis | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Skin, SOA-No Mass | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Acanthosis | 4 | 3 | | 4 | | 3 | | 4 | 3 | 3 | 2 | 4 | 3 | 3 | 4 | 4 | 3 | 4 | | 4 | 3 | 4 | | 3 | 3 | | 3 | 3 | 2 | 4 |
| Hair Follicle, Cyst | | | | X | | X | | X | | X | | | | | | | | | | | | | | | | | | | | X |
| Inflammation, Chronic Active | 2 | 3 | 4 | 2 | 3 | 3 | | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 1 | 3 |
| Ulcer | | 4 | | | 4 | 3 | | 3 | 4 | 4 | | 4 | 4 | | 4 | | 4 | 4 | 4 | | | 4 | 4 | 4 | 4 | 4 | 4 | 3 | | 3 |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:42
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 | |
| Alopecia | 1 | |
| Inflammation, Chronic Active | 2 | 4.0 |
| Ulcer | 1 | 4.0 |
| Skin, Control | 16 | |
| Acanthosis | 16 | 2.3 |
| Inflammation, Chronic Active | 15 | 1.1 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:42
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
MNNG 100 /TPA 1

| ANIMAL ID | *TOTALS | |
|------------------------------|---------|-----|
| Skin, SOA-Mass | 16 | |
| Acanthosis | 1 | 2.0 |
| Skin, SOA-No Mass | 29 | |
| Acanthosis | 24 | 3.3 |
| Hair Follicle, Cyst | 5 | |
| Inflammation, Chronic Active | 28 | 2.7 |
| Ulcer | 19 | 3.8 |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P09: NON-NEOPLASTIC LESIONS 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: 18:24:42

First Dose M/F: NA / NA

Lab: BAT

| SENCAR Mouse Female MNNG1000 /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 | 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 | |
| | 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 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 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 | |
| Hair Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 2 | | | | | | | 1 | | 1 | 3 | 1 | 1 | 1 | | | 1 | | 1 | | | | | | | | | 3 | | |
| Ulcer | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | 4 | | |
| Skin, SOA-Mass | + | | + | | | | + | | + | + | + | + | | + | + | | + | + | | + | + | | | | | + | | + | + | |
| Acanthosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 |
| Cyst Epithelial Inclusion | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Skin, SOA-No Mass | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Acanthosis | 3 | 2 | 3 | 3 | 3 | 3 | 3 | | | 3 | | 3 | 3 | 3 | 3 | 3 | 4 | 2 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | | | | 2 | |
| Hair Follicle, Cyst | | | | | | | X | | | | | | | | | | X | | | | | | X | | | | | | | |
| Inflammation, Chronic Active | 2 | 1 | 1 | 3 | 3 | 3 | 3 | | 3 | 2 | 3 | 3 | 3 | 3 | | 3 | | 3 | 3 | 3 | 2 | 4 | | | 3 | | 3 | 3 | | |
| Ulcer | | | | 4 | 4 | 4 | 4 | | 4 | | 3 | 3 | 4 | | | 4 | | 4 | 4 | 4 | | 4 | | | 3 | | 4 | 4 | | |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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

1-4 ..Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:43
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 | |
| Acanthosis | 3 | 3.0 |
| Inflammation, Chronic Active | 6 | 2.8 |
| Ulcer | 5 | 3.8 |
| Skin, Control | 14 | |
| Acanthosis | 11 | 2.2 |
| Hair Follicle, Cyst | 1 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS 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: 18:24:43
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

SENCAR Mouse Female
MNNG1000 /TPA 1

| ANIMAL ID | *TOTALS | |
|------------------------------|---------|-----|
| Inflammation, Chronic Active | 10 | 1.5 |
| Ulcer | 2 | 4.0 |
| Skin, SOA-Mass | 16 | |
| Acanthosis | 2 | 2.0 |
| Cyst Epithelial Inclusion | 1 | |
| Skin, SOA-No Mass | 28 | |
| Acanthosis | 24 | 3.1 |
| Hair Follicle, Cyst | 3 | |
| Inflammation, Chronic Active | 23 | 2.7 |
| Ulcer | 17 | 3.8 |

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-07
Test Type: INIT/PROMOT
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)
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Date Report Requested: 10/22/2014
Time Report Requested: 18:24:43
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 lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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CAS Number: INIT/PROM

Date Report Requested: 10/22/2014
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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

**** END OF REPORT ****

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

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