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 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 **VEHICLE CONTROL** 0 ANIMAL ID Õ Õ Õ Õ Õ 2 5 8 9 0 2 3 5 6 7 8 9 Õ 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

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 **VEHICLE CONTROL** 0 0 ANIMAL ID Ō 0 Õ Ō Õ Õ Ō 0 Õ 0 8 2 6 2 3 5 6 9 5 0 2 2 3 4 5 7 8 9 Õ Ō 7 6 0 <u>9</u> 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

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 VEHICLE CONTROL

ANIMAL ID

***TOTALS**

2

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

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 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

Experiment Number: 05117-07 Test Type: INIT/PROMOT

Species/Strain: Mouse/SENCAR

Route: SKIN APPLICATION DERMAL, SOLUTION

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 2 8 5 3 SENCAR Mouse Male 7 7 7 7 3 9 7 DMBA0.25 /TPA 1 0 0 ANIMAL ID Õ Õ Õ Õ Õ Ō 5 2 5 6 2 3 5 7 8 9 5 0 3 5 7 8 9 6 6 9 **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 + + + Х Keratoacanthoma Squamous Cell Carcinoma х х Х Х Squamous Cell Carcinoma, Multiple ХХ

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

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Experiment Number: 05117-07

Test Type: INIT/PROMOT

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

Route: SKIN APPLICATION|DERMAL,SOLUTION Species/Strain: Mouse/SENCAR

SENCAR Mouse Male DMBA0.25 /TPA 1	DAY ON TEST ANIMAL ID	3 6 3	0 3 6 3 0 0 0 0 3 2	0 2 5 3 0 0 0 3 3 3	0 3 2 4 0 0 0 3 4	0 3 6 3 0 0 0 3 5	0 2 8 7 0 0 0 3 6	0 0 7 7 0 0 0 3 7	0 2 4 4 0 0 0 3 8	0 1 6 2 0 0 0 3 9	0 3 6 3 0 0 0 0 4 0	0 2 8 8 0 0 0 0 4 1	0 3 6 3 0 0 0 4 2	0 0 8 0 0 0 0 4 3	<i>0</i> <i>1</i> <i>2</i> <i>7</i> 0 0 0 4 4 4	0 1 2 7 0 0 0 4 5	<i>0</i> 2 9 7 0 0 0 4 6	0 2 8 6 0 0 0 4 7	0 3 2 3 0 0 0 4 8	0 1 2 9 0 0 0 4 9	<i>0</i> <i>0</i> <i>7</i> <i>9</i> 0 0 0 5 0	0 1 7 5 0 0 0 5 1	0 2 8 9 0 0 0 5 2	0 1 6 2 0 0 0 5 3	0 1 2 7 0 0 0 5 4	0 2 4 0 0 0 5 5	0 1 6 9 0 0 0 5 6	0 1 7 1 0 0 0 5 7	0 1 9 7 0 0 0 5 8	0 3 6 3 0 0 0 5 9	0 1 2 7 0 0 0 6 0
Squamous Cell Papilloma Squamous Cell Papilloma,	Multiple		Х		Х								Х					х													
Skin, SOA-No Mass Musculoskeletal System	multiple	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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

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 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

+ $\hfill ... Tissue examined microscopically$

X ..Lesion present

I .. Insufficient tissue

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 DMBA0.25 /TPA 1

	ANIMAL ID	
		*TOTALS
Squamous Cell Papilloma, Mult Skin, SOA-No Mass Musculoskeletal System	iple	1 30
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

Experiment Number: 05117-07 Test Type: INIT/PROMOT

Species/Strain: Mouse/SENCAR

Route: SKIN APPLICATION DERMAL, SOLUTION

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 3 0 3 7 5 7 SENCAR Mouse Male 4 7 4 DMBA 2.5 /TPA 1 0 0 ANIMAL ID Õ Õ Õ Õ Õ Ō Õ 7 5 7 6 7 2 5 8 9 2 0 2 5 6 7 8 9 6 7 3 . 9 **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 + + + + + + + + + + + Х Х Х х х Х Х Squamous Cell Carcinoma Squamous Cell Carcinoma, Multiple х х Х Squamous Cell Papilloma ХХ Х

* .. 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

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

Route: SKIN APPLICATION|DERMAL,SOLUTION Species/Strain: Mouse/SENCAR

SENCAR Mouse Male DMBA 2.5 /TPA 1	DAY ON TEST	3 2 4	0 0 1 6 0 0 0 6 2	0 1 6 2 0 0 0 0 6 3	0 3 2 4 0 0 0 6 4	0 9 1 0 0 0 6 5	0 1 6 2 0 0 0 6 6	0 2 0 2 0 0 0 0 0 6 7	0 3 6 3 0 0 0 0 6 8	0 1 9 9 0 0 0 0 6 9	0 2 4 4 0 0 0 7 0	0 1 6 7 0 0 0 7 1	0 1 7 2 0 0 0 7 2	0 9 1 0 0 0 7 3	0 1 1 3 0 0 0 7 4	0 1 9 9 0 0 0 7 5	0 2 8 7 0 0 0 7 6	0 2 3 3 0 0 0 7 7 7	0 3 2 4 0 0 0 7 8	0 1 9 8 0 0 0 7 9	0 2 1 6 0 0 0 8 0	0 1 5 0 0 0 0 8 1	0 1 2 7 0 0 0 8 2	0 3 0 4 0 0 0 8 3	0 3 6 3 0 0 0 0 8 4	0 2 6 5 0 0 0 8 5	0 1 9 7 0 0 0 8 6	0 2 7 9 0 0 0 8 7	0 2 0 2 0 0 0 0 8 8	0 2 5 7 0 0 0 8 9	0 1 8 1 0 0 0 9 0
Squamous Cell Papilloma, Skin, SOA-No Mass Musculoskeletal System	Multiple	X +	+	+	+	+	+	X +	+	+	+	+	X +	+	+	+	+	+	+	+	+	+	+	+	+	X +	+	+	+	X +	+
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

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

Calulovasculai Syste

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

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 Musculoskeletal System		30
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

Experiment Number: 05117-07 Test Type: INIT/PROMOT

Species/Strain: Mouse/SENCAR

Route: SKIN APPLICATION DERMAL, SOLUTION

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 1 5 5 4 9 5 0 5 5 SENCAR Mouse Male 3 9 7 **DMBA 25 /TPA 1** 0 0 ANIMAL ID Õ Õ Õ Õ Ō Ō Õ Õ 2 5 6 8 9 6 7 3 5 8 9 0 ž Δ **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 + + + + + + Х Х Keratoacanthoma, Multiple Squamous Cell Carcinoma ХХ Х x x x x x x x x Х Х х х х х Х Squamous Cell Carcinoma, Multiple Х Х

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

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Experiment Number: 05117-07

Test Type: INIT/PROMOT

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

Route: SKIN APPLICATION|DERMAL,SOLUTION Species/Strain: Mouse/SENCAR

SENCAR Mouse Male DMBA 25 /TPA 1	DAY ON TEST ANIMAL ID	1 6 2	0 3 5 5 0 0 0 9 2	0 2 6 0 0 0 9 3	0 2 9 3 0 0 0 9 4	0 2 4 4 0 0 0 9 5	0 3 0 3 0 0 0 0 9 6	0 2 8 1 0 0 0 9 7	0 1 3 3 0 0 0 9 8	0 9 9 0 0 0 0 9 9 9	0 1 4 8 0 0 0 1 0 0	0 2 8 9 0 0 1 0 1	0 1 2 9 0 0 1 0 2	0 2 6 5 0 0 1 0 3	0 3 4 0 0 0 1 0 4	0 2 9 6 0 0 1 0 5	0 2 4 7 0 0 1 0 6	0 2 6 5 0 0 1 0 7	0 1 6 2 0 0 1 0 8	0 2 6 1 0 0 1 0 9	0 1 6 4 0 0 1 1 0	<i>0</i> <i>1</i> <i>2</i> <i>7</i> 0 0 1 1 1	0 2 5 0 0 1 1 2	0 3 4 1 0 0 1 1 3	0 2 5 1 0 0 1 1 4	0 2 3 4 0 0 1 1 5	0 3 6 3 0 0 1 1 6	0 2 5 3 0 0 1 1 7	0 2 6 1 0 0 1 1 8	0 2 6 7 0 0 1 1 9	0 3 1 4 0 0 1 2 0
Squamous Cell Papilloma		Х															Х		Х								Х				
Squamous Cell Papilloma,	Multiple														Х	Х										Х		Х			Х
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

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

+ $\hfill ... Tissue examined microscopically$

X ..Lesion present

I .. Insufficient tissue

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, Mu Skin, SOA-No Mass Musculoskeletal System	Itiple	5 29
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

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 3 5 4 SENCAR Mouse Male 3 9 **TPA 1/ COMPLETE** 0 0 ANIMAL ID Õ Õ Õ Õ Ō Õ Õ 1 2 2 3 5 6 7 8 2 5 . 3 6 . 3 9 9 0 3 7 8 2 9 5 6 7 **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 Х Skin, SOA-No Mass

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

+ .. Tissue examined microscopically

X ..Lesion present

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 5 4 SENCAR Mouse Male 3 9 **TPA 1/ COMPLETE** 0 0 0 ANIMAL ID Õ Õ Õ Ō Õ Õ 1 2 2 3 5 6 7 8 2 . 3 5 . 3 6 7 . 3 9 9 0 3 8 2 9 5 6 7 **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

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

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

30

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

+ $\hfill ... Tissue examined microscopically$

X ..Lesion present

I .. Insufficient tissue

Experiment Number: 05117-07 Test Type: INIT/PROMOT

Species/Strain: Mouse/SENCAR

Route: SKIN APPLICATION | DERMAL, SOLUTION

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

Species/Strain. Mouse/SENCAR																								ap. 1							
SENCAR Mouse Male MNNG 100 /TPA 1	DAY ON TEST ANIMAL ID	0 1 3 4 0 0	0 2 9 7 0 0	0 1 8 3 0 0	0 2 6 0 0	0 2 1 5 0 0	0 3 6 3 0 0	0 1 7 1 0 0	0 3 0 3 0 0	0 2 1 1 0 0	0 2 1 7 0 0	0 3 6 3 0 0	0 3 6 3 0 0	0 3 6 3 0 0	0 2 8 8 0 0	0 2 6 5 0 0	0 1 9 9 0 0	0 3 6 3 0 0	0 2 6 0 0	0 2 4 6 0 0	0 1 6 9 0	0 3 6 3 0 0	0 3 4 7 0 0	0 1 6 7 0 0	0 1 8 1 0 0	0 2 9 7 0 0	0 1 6 2 0 0	0 2 4 6 0 0	0 3 6 3 0 0	0 1 4 9 0 0	0 3 6 3 0 0
Alimentary System		1 5 1	1 5 2	1 5 3	1 5 4	1 5 5	1 5 6	1 5 7	1 5 8	1 5 9	1 6 0	1 6 1	1 6 2	1 6 3	1 6 4	1 6 5	1 6 6	1 6 7	1 6 8	1 6 9	1 7 0	1 7 1	1 7 2	1 7 3	1 7 4	1 7 5	1 7 6	1 7 7	1 7 8	1 7 9	1 8 0
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 Squamous Cell Papilloma	Multiple	+	+	+ +	+	+	+	+	+ + X		+ + X	+	+	+	+	+ + X	+	+	+ +	+ +	+	+ X	+ + +		+	+ X X	+ + +	+	+	+	+
*Total animals with tissue examin		Total	anim	nals w	vith tu	umor										ng tis	sue			-4:											

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

A ...Autolysis precludes evaluation BLANK ...Not examined microscopically Experiment Number: 05117-07

Test Type: INIT/PROMOT

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

Route: SKIN APPLICATION|DERMAL,SOLUTION Species/Strain: Mouse/SENCAR

SENCAR Mouse Male MNNG 100 /TPA 1	DAY ON TEST ANIMAL ID	1 3 4	0 2 9 7 0 0 1 5 2	0 1 8 3 0 0 1 5 3	0 2 6 0 0 1 5 4	0 2 1 5 0 0 1 5 5	0 3 6 3 0 0 1 5 6	0 1 7 1 0 0 1 5 7	0 3 0 3 0 0 1 5 8	0 2 1 1 0 0 1 5 9	0 2 1 7 0 0 1 6 0	0 3 6 3 0 0 1 6 1	0 3 6 3 0 0 1 6 2	0 3 6 3 0 0 1 6 3	0 2 8 8 0 0 1 6 4	0 2 6 5 0 0 1 6 5	<i>0</i> <i>1</i> <i>9</i> <i>9</i> 0 0 1 6 6	0 3 6 3 0 0 1 6 7	0 2 6 0 0 1 6 8	0 2 4 6 0 0 1 6 9	0 1 6 9 0 0 1 7 0	0 3 6 3 0 0 1 7 1	0 3 4 7 0 0 1 7 2	0 1 6 7 0 0 1 7 3	0 1 8 1 0 0 1 7 4	0 2 9 7 0 0 1 7 5	0 1 6 2 0 0 1 7 6	0 2 4 6 0 0 1 7 7 7	0 3 6 3 0 0 1 7 8	0 1 4 9 0 0 0 1 7 9	0 3 6 3 0 0 1 8 0
Squamous Cell Papilloma, Skin, SOA-No Mass Musculoskeletal System	Multiple	+	+	+	+	+	X +	+	+	+	+	X +	X +	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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

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

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 Musculoskeletal System		30
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

Experiment Number: 05117-07 Test Type: INIT/PROMOT

Species/Strain: Mouse/SENCAR

Route: SKIN APPLICATION | DERMAL, SOLUTION

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

			1															I .					<u> </u>	<u> </u>					I .		
	DAY ON TEST	$\begin{vmatrix} 0\\2 \end{vmatrix}$	$\begin{vmatrix} 0\\2 \end{vmatrix}$	0 0	0 0	0 3	0 0	0 2	0 2	0 0	0 1	$\begin{array}{c} 0\\ 2\end{array}$	0 2	0 0	$\begin{array}{c} 0\\ 2\end{array}$	0 1	0 1	0 1	0 1	0 1	$\begin{vmatrix} 0\\2 \end{vmatrix}$	0 1	0 1	0 1	0 1	0 1	0 1	0 1	01	0 1	0 1
SENCAR Mouse Male MNNG1000 /TPA 1		6 0	2 1 2	8 3	3 8	6 3	9 9	2 2 4	2 1 1	5 0	5 6	2 7 3	2 7 4	9 1	4 4	4 8	6 9	4 8	8 2	2 0	2 2 6	1 5 9	5 6	1 8 3	9 7	4 8	6 0	9 9	6 7	9 7	5 0
	ANIMAL ID	0	0	00	0	0	0 0	0	0	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 8	1 8 2	1 8	1 8	1 8	1 8	1 8 7	1 8	1 8	1 9	1 9	1 9	1 9	1 9	1 9	1 9	1 9 7	1 9	1 9	2 0	2	2 0	2	2 0	2 0	2	2 0 7	2 0	2 0	2
Alimentary System		1	2	3	4	5	6	1	8	9	0	1	2	3	4	5	6	1	8	9	0	1	2	3	4	5	6	/	8	9	0
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		.,						.,			.,	.,				Х		.,	.,		.,		.,		.,	.,	.,	.,	.,		
Squamous Cell Carcinoma		Х						Х	.,	.,	Х	Х	.,					Х	Х		Х		Х		Х	Х	Х	Х	Х	.,	Х
Squamous Cell Carcinoma,	Multiple								Х	Х			Х																	Х	

* .. 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

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

Route: SKIN APPLICATION|DERMAL,SOLUTION Species/Strain: Mouse/SENCAR

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

 $^{\ast}\,$..Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

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

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, Multip	le	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

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

Experiment Number: 05117-07	P04: NEOPLASMS BY INDIVIDUAL ANIMAL	ASMS 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											
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										

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

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** 0 0 2 2 5 ANIMAL ID 2 1 Õ Õ Õ 2 1 5 2 2 6 2 3 2 2 2 2 2 2 9 2 3 9 1 1 1 2 2 2 7 2 8 3 3 3 3 6 3 7 3 8 1 1 1 2 0 2 3 3 0 3 3 5 4 **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 Х Skin Skin, SOA-No Mass Musculoskeletal System

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

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

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** 0 0 2 1 0 2 2 5 ANIMAL ID Õ 2 1 Õ 2 1 5 2 1 8 2 2 6 2 2 9 2 3 2 2 3 9 2 2 2 1 1 2 2 2 7 2 8 3 3 3 3 3 5 3 6 3 7 3 8 1 1 1 2 0 2 3 3 0 4 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

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 Skin, SOA-No Mass	29 1
Musculoskeletal System	I
-	

NONE

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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

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 2 9 4 7 SENCAR Mouse Female 0 -4 7 0 7 DMBA0.25 /TPA 1 0 0 2 5 5 ANIMAL ID Õ Õ 2 4 2 2 4 5 2 4 8 2 4 9 2 5 6 2 5 9 2 6 2 2 5 2 2 6 9 4 4 5 5 5 7 5 8 6 6 3 6 6 6 6 7 6 8 4 4 5 5 3 6 0 6 5 7 **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 Х Skin, Control + Skin, SOA-Mass + + Squamous Cell Carcinoma Х Х Х Squamous Cell Papilloma Х Х Х Х Х

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

Test Type: INIT/PROMOT

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

Route: SKIN APPLICATION|DERMAL,SOLUTION Species/Strain: Mouse/SENCAR

C SENCAR Mouse Female DMBA0.25 /TPA 1	AY ON TEST	1 6 7	0 3 6 3 0 0 2 4 2	0 3 1 6 0 0 2 4 3	0 1 0 6 0 0 2 4 4 4	0 3 6 3 0 0 2 4 5	0 3 6 3 0 0 2 4 6	0 1 2 0 0 0 2 4 7	0 2 9 3 0 0 2 4 8	0 1 2 0 0 0 2 4 9	0 1 9 8 0 0 2 5 0	<i>0</i> <i>2</i> <i>8</i> <i>7</i> 0 0 2 5 1	<i>0</i> <i>1</i> <i>9</i> <i>9</i> 0 0 2 5 2	0 1 5 7 0 0 2 5 3	0 3 1 6 0 0 2 5 4	0 2 4 7 0 0 2 5 5	0 3 6 3 0 0 2 5 6	0 3 6 3 0 0 2 5 7	0 3 4 2 0 0 2 5 8	<i>0</i> <i>9</i> <i>9</i> 0 0 2 5 9	0 3 6 3 0 0 2 6 0	0 3 6 0 0 2 6 1	0 3 6 3 0 0 2 6 2	0 3 6 3 0 0 2 6 3	0 2 4 7 0 0 2 6 4	0 2 4 4 0 0 2 6 5	<i>0</i> <i>1</i> <i>1</i> <i>3</i> 0 0 2 6 6 6	<i>0</i> 2 1 1 0 0 2 6 7	0 2 5 9 0 0 2 6 8	0 2 8 6 0 0 2 6 9	0 2 8 9 0 0 2 7 0
Squamous Cell Papilloma, Mu Skin, SOA-No Mass Musculoskeletal System	ıltiple	+	+	+	+	X +	+	+	+	+	+	+	+	+	+	+	+	X +	X +	+	+	+	+	+	+	+	+	+	+	+	+
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

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

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 Musculoskeletal System		30
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

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

		3 6 2	3 0 7	0 2 9 7	0 2 1	0 3 0	0 3 3	0 3 6	0 2 3	0 3 0	0 2 6	0 1 5	0 3 6	0 2 7	0 3 0	0 3 4	0 2 2 3	0 3 4	0 3 0	0 2 8	0 2 7	0 2 2 1	0 3 1	0 3 6	0 1 6	0 0 6	0 2 5	0 3 6 2	0 2 8	0 3 6 2	0 2 5 7
DMBA 2.5 /TPA 1	NIMAL ID	3 0 2 7 1	7 0 2 7 2	7 0 2 7 3	2 0 2 7 4	3 0 2 7 5	0 0 2 7 6	3 0 2 7 7	9 0 2 7 8	6 0 2 7 9	1 0 2 8 0	0 0 2 8 1	3 0 2 8 2	4 0 2 8 3	3 0 2 8 4	5 00285	3 0 2 8 6	5 0 2 8 7	3 0 2 8 8	9 0 2 8 9	3 0 2 9 0	1 0 2 9 1	1 0 2 9 2	3 0 2 9 3	9 0 2 9 4	3 0 2 9 5	3 0 0 2 9 6	3 0 2 9 7	8 0 2 9 8	3 0 2 9 9	7 0 3 0 0
Alimentary System							_				-	1							_		-							I		-	
NONE Cardiovascular System																															
NONE Endocrine System																															
NONE General Body System																															
NONE Genital System																															
NONE Hematopoietic System																															
NONE Integumentary System																															
Skin Basal Cell Carcinoma								+ X				+										+			+						
Skin, Control		+	+	+	+	+	+			+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skin, SOA-Mass Keratoacanthoma Keratoacanthoma, Multiple		+	+	+	+		+	+	+ X	+	+		+	+ X	+	+		+		+	+	+	+				+				+

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

Test Type: INIT/PROMOT

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

Route: SKIN APPLICATION|DERMAL,SOLUTION Species/Strain: Mouse/SENCAR

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

 $^{\ast}\,$..Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

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

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

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 1 8 7 7 5 8 2 7 5 2 6 SENCAR Mouse Female 3 2 5 **DMBA 25 /TPA 1** 0 0 ANIMAL ID Õ Õ Õ 3 1 3 0 2 3 0 5 3 1 3 2 2 3 2 9 0 8 0 9 1 1 5 2 2 2 6 2 7 2 8 0 2 0 2 3 2 5 0 Õ Õ Õ Õ **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 + + + + Х Keratoacanthoma Squamous Cell Carcinoma ХХ Х Х Х х х х х Х Х Х Х Х Х Squamous Cell Carcinoma, Multiple Х Х Х Х

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

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Test Type: INIT/PROMOT

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

Route: SKIN APPLICATION|DERMAL,SOLUTION Species/Strain: Mouse/SENCAR

DA SENCAR Mouse Female DMBA 25 /TPA 1	AY ON TEST ANIMAL ID	2 5 3	0 2 6 1 0 0 3 0 2	0 3 3 0 0 0 3 0 3	0 3 2 3 0 0 3 0 4	0 2 8 0 0 0 3 0 5	0 3 2 2 0 0 3 0 6	0 1 9 8 0 0 3 0 7	0 1 8 3 0 0 3 0 8	0 2 2 6 0 0 3 0 9	0 1 9 9 0 0 3 1 0	0 3 0 3 0 0 3 1 1	0 2 7 2 0 0 3 1 2	0 1 5 0 0 3 1 3	0 1 9 8 0 0 3 1 4	0 3 0 7 0 0 3 1 5	<i>0</i> <i>2</i> <i>7</i> <i>2</i> 0 0 3 1 6	0 2 1 1 0 0 3 1 7	0 2 5 1 0 0 3 1 8	0 2 4 6 0 0 3 1 9	0 2 7 1 0 0 3 2 0	0 2 9 6 0 0 3 2 1	0 2 8 8 0 0 3 2 2	0 2 7 8 0 0 3 2 3	0 1 9 3 0 0 3 2 4	0 2 1 7 0 0 3 2 5	0 1 0 3 0 0 3 2 6	0 2 7 0 0 3 2 7	0 2 6 1 0 0 3 2 8	<i>0</i> <i>1</i> <i>5</i> <i>5</i> <i>0</i> <i>0</i> <i>3</i> <i>2</i> <i>9</i>	0 3 6 3 0 0 3 3 0
Squamous Cell Papilloma Squamous Cell Papilloma, Mult Skin, SOA-No Mass Musculoskeletal System	iple	X +	+	х	X +	+	Х	+	X +	X +	X +	X +	X +	+	+	X +	X +	+	+	+	X +	X +	+	X +	+	+	+	+	+	+	+
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

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

+ $\hfill ... Tissue examined microscopically$

X ..Lesion present

I .. Insufficient tissue

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, Multi	iple	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

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

SENCAR Mouse Fema TPA 1/ COMPLETE	DAY ON TEST Ile ANIMAL ID	3 4 5	0 1 3 4 0 0 3 3 2	0 3 6 3 0 0 3 3 3 3	0 1 9 8 0 0 3 3 4	0 9 7 0 0 3 3 5	0 3 6 3 0 0 3 3 6	0 3 6 3 0 0 3 3 7	0 1 6 1 0 0 3 3 8	0 0 7 7 0 0 3 3 9	0 1 2 0 0 3 4 0	0 3 5 4 0 0 3 4 1	0 1 8 3 0 0 3 4 2	0 3 6 3 0 0 3 4 3	0 1 2 6 0 0 3 4 4 4	0 1 6 9 0 0 3 4 5	0 2 9 3 0 0 3 4 6	0 2 7 0 0 3 4 7	0 2 0 2 0 3 4 8	0 3 6 3 0 0 3 4 9	0 3 6 3 0 0 3 5 0	0 1 0 6 0 0 3 5 1	0 3 6 3 0 0 3 5 2	0 2 2 4 0 0 3 5 3	0 1 3 3 0 0 3 5 4	0 2 4 0 0 3 5 5	0 3 6 3 0 0 3 5 6	0 1 3 3 0 0 3 5 7	0 3 6 3 0 0 3 5 8	0 3 6 3 0 0 3 5 9	0 2 5 1 0 0 3 6 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 Papilloma			+	+ + X	+	+ +			+		+		+ +	+	+	+	+	+	+	+	+	+	+	+	+	+	+ +	+		+	+
Skin, SOA-No Mass		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

 $^{\ast}\,$..Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

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

SENCAR Mouse Female TPA 1/ COMPLETE	AY ON TEST ANIMAL ID	3 4 5	0 1 3 4 0 0 3 3 2	0 3 6 3 0 0 3 3 3 3	0 1 9 8 0 0 3 3 4	0 9 7 0 0 3 3 5	0 3 6 3 0 0 3 3 6	0 3 6 3 0 0 3 3 7	0 1 6 1 0 0 3 3 8	<i>0</i> <i>0</i> <i>7</i> <i>7</i> 0 0 3 3 9	0 1 2 0 0 0 3 4 0	0 3 5 4 0 0 3 4 1	0 1 8 3 0 0 3 4 2	0 3 6 3 0 0 3 4 3	0 1 2 6 0 0 3 4 4 4	0 1 6 9 0 0 3 4 5	0 2 9 3 0 0 3 4 6	0 2 2 7 0 0 3 4 7	0 2 0 2 0 0 3 4 8	0 3 6 3 0 0 3 4 9	0 3 6 3 0 0 3 5 0	0 1 0 6 0 3 5 1	0 3 6 3 0 0 3 5 2	0 2 2 4 0 0 3 5 3	0 1 3 3 0 0 3 5 4	0 2 4 0 0 3 5 5	0 3 6 3 0 0 3 5 6	0 1 3 0 0 3 5 7	0 3 6 3 0 0 3 5 8	0 3 6 3 0 0 3 5 9	0 2 5 1 0 0 3 6 0
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

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

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

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 5 9 SENCAR Mouse Female 3 **MNNG 100 /TPA 1** 0 0 ANIMAL ID Ō 3 7 3 6 2 3 6 5 3 6 8 3 6 9 3 7 6 3 8 2 3 8 9 6 7 7 7 2 7 7 5 7 8 8 6 8 8 6 6 6 7 7 7 8 0 8 8 5 8 7 3 . 9 **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 + + + + + + + + Х Х Х Х Х Х Squamous Cell Carcinoma Х Squamous Cell Papilloma Х Х Х Squamous Cell Papilloma, Multiple Х Х Х Х Х Х

* .. 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

Species/Strain: Mouse/SENCAR

Route: SKIN APPLICATION DERMAL, SOLUTION

Test Type: INIT/PROMOT

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 5 9 SENCAR Mouse Female 3 **MNNG 100 /TPA 1** 0 0 ANIMAL ID Ō Õ Õ 3 7 3 6 2 3 6 5 3 6 8 3 8 2 6 9 7 5 7 6 8 9 6 7 7 2 7 7 7 7 6 7 0 3 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

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

+ $\hfill ... Tissue examined microscopically$

X ..Lesion present

I .. Insufficient tissue

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

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 2 9 7 4 2 7 5 1 2 5 SENCAR Mouse Female 7 7 2 **MNNG1000 /TPA 1** 0 0 ANIMAL ID Ō Ō Õ Õ 3 9 2 3 9 5 3 9 8 3 9 9 9 9 6 9 7 0 5 2 3 6 . 0 8 9 0 Δ **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 + + + + + + + + Х Х Х Х Х Х Squamous Cell Carcinoma Squamous Cell Carcinoma, Multiple Х Х Х Squamous Cell Papilloma Х

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

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Test Type: INIT/PROMOT

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

Route: SKIN APPLICATION|DERMAL,SOLUTION Species/Strain: Mouse/SENCAR

SENCAR Mouse Femal MNNG1000 /TPA 1	DAY ON TEST e ANIMAL ID	3 6 2	0 3 6 3 0 0 3 9 2	0 2 4 0 0 3 9 3	0 0 7 7 0 0 3 9 4	0 2 4 6 0 0 3 9 5	0 1 7 4 0 0 3 9 6	0 2 7 0 0 3 9 7	0 2 9 7 0 0 3 9 8	0 3 6 3 0 0 3 9 9 9	0 3 0 0 0 0 4 0 0	<i>0</i> <i>1</i> <i>2</i> <i>7</i> 0 0 4 0 1	0 1 9 7 0 0 4 0 2	0 0 4 2 0 0 4 0 3	0 3 0 3 0 0 4 0 4	0 3 0 3 0 0 4 0 5	0 0 4 2 0 0 4 0 6	0 1 0 8 0 0 4 0 7	0 1 5 5 0 0 4 0 8	0 0 5 7 0 0 4 0 9	0 1 3 4 0 0 4 1 0	0 2 2 5 0 0 4 1 1	0 2 5 1 0 0 4 1 2	0 2 5 3 0 0 4 1 3	0 9 9 1 0 0 4 1 4	<i>0</i> <i>9</i> <i>7</i> 0 0 4 1 5	<i>0</i> <i>1</i> <i>5</i> <i>0</i> 0 0 4 1 6	0 2 6 0 0 0 4 1 7	0 0 5 0 0 0 4 1 8	0 0 5 2 0 0 4 1 9	0 0 5 0 0 0 4 2 0
Squamous Cell Papilloma, M	ultiple			Х						Х													Х								
Subcut Tiss, Sarcoma		V						Х								Х												Х			
Subcut Tiss, Sarcoma, Multip Skin, SOA-No Mass	DIE	X +	т	т	т	т	т	т	т		т	т	т	т	т	т	т	т	т	т	т	т	т	т	т	т	т		т	т	т
Musculoskeletal System		т	т	т	т	т	т	т	т		т	т	т	т	т	т	т	т	т	т	т	т	т	т	т	т	т		т	т	т
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

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

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

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

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