Experiment Number: 05117-05
Test Type: INIT/PROMOT
Route: SKIN APPLICATION

Species/Strain: Mouse/CD-1 CRL

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: 10/19/2014 Time Report Requested: 18:35:41

First Dose M/F: NA / NA

Lab: BAT

C Number: C61994B

**Lock Date:** 04/09/1992

Cage Range: All

Date Range: All

Reasons For Removal:

Removal Date Range: All

Treatment Groups: All

Study Gender: Both

PWG Approval Date 04/28/1994

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT Route: SKIN APPLICATION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Date Report Requested: 10/19/2014

Time Report Requested: 18:35:41

Lab: BAT

Species/Strain: Mouse/CD-1 CRL

CD-1	CRL	Mouse	Male
VEHI	CLE	CONTR	ROL

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
•	3	3	3	3	3	3	3	1	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
е	1	6	6	6	6	6	6	5	6	6	6	6	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	3	2	2	2	2	2	2	8	2	3	3	3	7	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5
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
ANIIVIAL 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	1	1	1	1	1	1	1	1	1	1	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

## **Alimentary System**

NONE

**Cardiovascular System** 

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin	+	+	+	+	+	+	+	+	+	+	+	+		+	4	ŀ	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active	4							4																					
Ulcer	4							4																					
Skin, SOA-No Mass	+												+	-	+	+													
Acanthosis	1												3	3	3	3													
Inflammation, Chronic Active	4												3																

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT **Route: SKIN APPLICATION** 

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Date Report Requested: 10/19/2014

Time Report Requested: 18:35:41

Lab: BAT

**CD-1 CRL Mouse Male VEHICLE CONTROL** 

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
•	3	3	3	3	3	3	3	1	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
e	1	6	6	6	6	6	6	5	6	6	6	6	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	3	2	2	2	2	2	2	8	2	3	3	3	7	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5
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
AMINAL 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	1	1	1	1	1	1	1	1	1	1	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

Ulcer 4 3

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X .. Lesion present I .. Insufficient tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 18:35:41

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL 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	27		
Inflammation, Chronic Active		2	4.0
Ulcer		2	4.0
Skin, SOA-No Mass	4		
Acanthosis		4	2.5
Inflammation, Chronic Active		2	3.5
Ulcer		2	3.5

+ ..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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

**Experiment Number: 05117-05** Test Type: INIT/PROMOT

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 18:35:41

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# **CD-1 CRL Mouse Male VEHICLE CONTROL**

ANIMAL ID

\*TOTALS

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present I .. Insufficient tissue A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

4) Marked 2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: INIT/PROMOT

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

**Route: SKIN APPLICATION** 

**CAS Number: INIT/PROM** 

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:41

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male MNNG 100/ACETONE

Species/Strain: Mouse/CD-1 CRL

DAY ON TEST	0 3 6 2	0 3 6 2	0 3 6 2	0 3 6 2	0 3 6 2	0 3 6 2	0 1 3 9	0 3 6 2	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 4	0 3 6 4	0 3 6 4	0 3 6 4	0 3 6 4	0 2 2 4	0 3 6 4	0 3 6 4	0 3 6 5	0 3 6 5	0 3 6 5	0 3 6 5	0 3 6 5	0 3 6 5	0 3 6 5	
ANIMAL ID	0 0 0 3 1	00032	0 0 0 3 3	0 0 0 3 4	00035	00036	0 0 0 3 7	000næ	0 0 0 3 9	0 0 0 4 0	0 0 0 4 1	0 0 0 4 2	00043	0 0 0 4 4	00045	0 0 0 4 6	0 0 0 4 7	0 0 0 4 8	0 0 0 4 9	00050	00051	00050	00059	0 0 0 5 4	00055	00056	0 0 0 5 7	0005&	0 0 0 5 9	00060	

**Alimentary System** 

NONE

Cardiovascular System

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+	+	+		+	+	+	+
Inflammation, Chronic Active																	3			4					
Ulcer																	3			4					
Skin, SOA-Mass								+																	
Acanthosis								1																	
Skin, SOA-No Mass				+				+		+	+	+		+							+ +				

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT **Route: SKIN APPLICATION** 

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:42

First Dose M/F: NA / NA

Lab: BAT

**CD-1 CRL Mouse Male MNNG 100/ACETONE** 

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
е	3	3	3	3	3	3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3
	6	6	6	6	6	6	3	6	6	6	6	6	6	6	6	6	6	6	6	6	2	6	6	6	6	6	6	6	6	6
	2	2	2	2	2	2	9	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5
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
AINIIVIAL 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	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 3 2 1 2 Inflammation, Chronic Active Ulcer 2 2

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

X .. Lesion present

A .. Autolysis precludes evaluation

1) Minimal 3) Moderate 2) Mild

I .. Insufficient tissue

BLANK .. Not examined microscopically

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

## Experiment Number: 05117-05 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: 10/19/2014 Time Report Requested: 18:35:42

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male MNNG 100/ACETONE

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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	22		
Inflammation, Chronic Active		2	3.5
Ulcer		2	3.5
Skin, SOA-Mass	1		
Acanthosis		1	1.0
Skin, SOA-No Mass	8		
Acanthosis		7	2.0

+ ..Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion present

I ..Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 18:35:42

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male MNNG 100/ACETONE

Species/Strain: Mouse/CD-1 CRL

ANIMAL ID

	*TOTALS
Inflammation, Chronic Active	2 3.0
Ulcer	3 2.7

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

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

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Experiment Number: 05117-05 P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Route: SKIN APPLICATION CAS Number: INIT/PROM

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:42

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male		0 3 6 2	0 3 6 2	0 3 6 2	0 3 1 4	0 3 4 1	0 3 6 2	0 0 5 8	0 3 6 3	0 3 6 3	0 1 7 6	0 3 6 3	0 3 6 3	0 1 9 5	0 3 6 3	0 2 9 4	0 3 6 4	0 3 6 4	0 3 0 2	0 2 3 8	0 2 5 9	0 2 2 4	0 3 5 7	0 3 6 4	0 3 6 5	0 3 6 5	0 3 6 5	0 3 6 5	0 1 7 5	0 2 5 7	0 3 6 5
	ANIMAL ID	0 0 0 6 1	0 0 0 6 2	00063	0 0 0 6 4	00065	0 0 0 6 6	0 0 0 6 7	0 0 0 6 8	00069	0 0 0 7 0	0 0 0 7 1	0 0 0 7 2	0 0 0 7 3	0 0 0 7 4	00075	0 0 0 7 6	0 0 0 7 7	0 0 0 7 8	00079	00000	00081	00082	0 0 0 8 3	00084	00085	00086	00087	0 0 0 8 8	0 0 0 8 9	0 0 0 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									3					
Inflammation, Chronic Active					4	4	4		2 4	1		3	4	
Ulcer					4	4	4	4	4	1		3	4	
Skin, SOA-Mass		+	+			+				+				
Hyperplasia, Mast Cell			2											

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT **Route: SKIN APPLICATION** 

**CAS Number: INIT/PROM** 

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:42

First Dose M/F: NA / NA

Lab: BAT

**CD-1 CRL Mouse Male MNNG 500/ACETONE** 

	_																														
р <b>е</b>	OAY ON TEST	0 3 6 2	0 3 6 2	0 3 6 2	0 3 1 4	0 3 4 1	0 3 6 2	0 0 5 8	0 3 6 3	0 3 6 3	0 1 7 6	0 3 6 3	0 3 6 3	0 1 9 5	0 3 6 3	0 2 9 4	0 3 6 4	0 3 6 4	0 3 0 2	0 2 3 8	0 2 5 9	0 2 2 4	0 3 5 7	0 3 6 4	0 3 6 5	0 3 6 5	0 3 6 5	0 3 6 5	0 1 7 5	0 2 5 7	0 3 6 5
	ANIMAL ID	0 0 0 6 1	0 0 0 6 2	0 0 0 6 3	0 0 0 6 4	0 0 0 6 5	0 0 0 6 6	0 0 0 6 7	0 0 0 6 8	00069	0 0 0 7 0	0 0 0 7 1	0 0 0 7 2	0 0 0 7 3	0 0 0 7 4	0 0 0 7 5	0 0 0 7 6	0 0 0 7 7	0 0 0 7 8	0 0 0 7 9	0 0 0 8 0	0 0 0 8 1	0 0 0 8 2	0 0 0 8 3	0 0 0 8 4	0 0 0 8 5	0 0 0 8 6	0 0 0 8 7	0 0 0 8 8	0 0 0 8 9	0 0 0 9
			+			+		+		+		+		+	+	+	+		+	+	+	+		+		+	+	+	+		
			1			3				1		1			1	2			3	3				3		2	1	2	3		
ve						1		4						4	1	2	3		4	4	3	4					1	1	4		

**Musculoskeletal System** 

Inflammation, Chronic Active

Skin, SOA-No Mass Acanthosis

NONE

Ulcer

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

4

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

## Experiment Number: 05117-05 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: 10/19/2014 Time Report Requested: 18:35:42

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male MNNG 500/ACETONE

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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	15		
Acanthosis		1	3.0
Inflammation, Chronic Active		7	3.6
Ulcer		7	3.9
Skin, SOA-Mass	4		
Hyperplasia, Mast Cell		1	2.0
Skin, SOA-No Mass	18		

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 18:35:42

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male MNNG 500/ACETONE

Species/Strain: Mouse/CD-1 CRL

ANIMAL ID

	*TOTA	LS
Acanthosis	13	2.0
Inflammation, Chronic Active	13	2.8
Ulcer	9	3.3

## **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

X ..Lesion presentI ..Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Experiment Number: 05117-05 P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Route: SKIN APPLICATION CAS Number: INIT/PROM Fir

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:42

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male		0 3 6 2	0 1 7 5	0 2 9 2	0 1 7 5	0 2 9 2	0 1 8 9	0 3 6 2	0 1 9 5	0 3 6 3	0 3 6 3	0 2 3 0	0 2 9 9	0 2 0 7	0 2 3 6	0 1 7 5	0 3 6 4	0 3 3 5	0 2 8 0	0 3 0 6	0 1 7 9	0 3 6 4	0 3 6 4	0 3 6 5	0 2 1 5	0 2 7 1	0 1 8 7	0 1 7 5	0 1 1 3	0 2 1 4	0 3 6 5
	ANIMAL ID	0 0 0 9 1	0 0 0 9 2	0 0 0 9 3	0 0 0 9 4	0 0 0 9 5	00096	0 0 0 9 7	00098	0 0 0 9 9	0 0 1 0 0	0 0 1 0 1	0 0 1 0 2	0 0 1 0 3	0 0 1 0 4	0 0 1 0 5	0 0 1 0 6	0 0 1 0 7	0 0 1 0 8	0 0 1 0 9	0 0 1 1 0	0 0 1 1 1	0 0 1 1 2	0 0 1 1 3	0 0 1 1 4	0 0 1 1 5	0 0 1 1 6	0 0 1 1 7	0 0 1 1 8	0 0 1 1 9	0 0 1 2

**Alimentary System** 

NONE

**Cardiovascular System** 

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis	4	4						3						
Inflammation, Chronic Active	4	3	4	3		3	3	3	4				3	2
Subcut Tiss, Infiltration Cellular, Mixed Cell		4												
Ulcer	4	3	4	3		4	3		3				4	3
Skin, Control		+		+										

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT **Route: SKIN APPLICATION** 

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:42

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male MNNG1000/ACETONE	OAY ON TEST	0 3 6 2 0 0 0 9 1	0 1 7 5 0 0 0 9 2	0 2 9 2 0 0 0 9 3	0 1 7 5 0 0 0 9 4	0 2 9 2 0 0 0 9 5	0 1 8 9 0 0 0 9 6	0 3 6 2 0 0 0 9 7	0 1 9 5 0 0 0 9 8	0 3 6 3 0 0 9 9	0 3 6 3 0 0 1 0	0 2 3 0 0 0 1	0 2 9 9 0 0 1 0 2	0 2 0 7 0 0 1 0 3	0 2 3 6 0 0 1 0 4	0 1 7 5 0 0 1 0 5	0 3 6 4 0 0 1 0 6	0 3 3 5 0 0 1 0 7	0 2 8 0 0 0 1 0 8	0 3 0 6 0 0 1 0 9	0 1 7 9 0 0 1 1 0	0 3 6 4 0 0 1 1	0 3 6 4 0 0 1 1	0 3 6 5 0 0 1 1 3	0 2 1 5 0 0 1 1 4	0 2 7 1 0 0 1 1 5	0 1 8 7 0 0 1 1 6	0 1 7 5 0 0 1 1	0 1 1 3 0 0 1 1 8	0 2 1 4 0 0 1 1 9	0 3 6 5 0 0 1 2
Acanthosis						3		2																							
Skin, SOA-Mass				+		+		+	+		+							+	+				+			+	+	+		+	+
Acanthosis											3																				2
Skin, SOA-No Mass		+	+		+	+	+	+	+			+	+	+	+		+	+			+		+	+	+	+	+	+	+	+	+
Acanthosis		2				3	3	2	3			3	3		3			2			4		1	3			1	3	3		1
Inflammation, Chronic Active		1	4		3	2	3	2	2				3	2	4		4	2			4			2	4	2	2	2	2	2	1
Ulcer			4		3				4				3		3		4				4				4					3	

Musculoskeletal System

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

X ..Lesion present I .. Insufficient tissue A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

#### **Experiment Number: 05117-05** 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: 10/19/2014 Time Report Requested: 18:35:42

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# **CD-1 CRL Mouse Male** MNNG1000/ACETONE

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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	14		
Acanthosis		3	3.7
Inflammation, Chronic Active		10	3.2
Subcut Tiss, Infiltration Cellular, Mixed Cell		1	4.0
Ulcer		9	3.4
Skin, Control	2		
Acanthosis		2	2.5

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

X .. Lesion present

A .. Autolysis precludes evaluation

2) Mild

I .. Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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: 10/19/2014 Time Report Requested: 18:35:42

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# **CD-1 CRL Mouse Male** MNNG1000/ACETONE

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

ANIMAL ID

	*TOT	ALS
Skin, SOA-Mass	13	
Acanthosis	2	2.5
Skin, SOA-No Mass	23	
Acanthosis	16	2.5
Inflammation, Chronic Active	21	2.5
Ulcer	g	3.6

### **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

I .. Insufficient tissue

X ..Lesion present

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

4) Marked 2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

**Experiment Number: 05117-05** P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: INIT/PROM **Route: SKIN APPLICATION** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:42

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male	DAY ON TEST	0 1 9 5	0 3 2 0	0 3 6 2	0 0 6 3	0 3 6 2	0 3 5 7	0 3 6 2	0 2 5 7	0 3 6 3	0 0 0 5	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 4	0 2 6 6	0 2 9 5	0 3 6 4	0 2 9 5	0 3 6 4	0 3 6 4	0 3 6 5	0 2 6 6	0 3 6 5	0 3 6 5	0 2 7 5	0 2 3 1	0 3 6 5	0 3 6 5	0 3 6 5	0 2 9 5
	ANIMAL ID	0 0 1 2 1	0 0 1 2 2	0 0 1 2 3	0 0 1 2 4	0 0 1 2 5	0 0 1 2 6	0 0 1 2 7	0 0 1 2 8	0 0 1 2 9	0 0 1 3 0	0 0 1 3 1	0 0 1 3 2	0 0 1 3 3	0 0 1 3 4	0 0 1 3 5	0 0 1 3 6	0 0 1 3 7	0 0 1 3 8	00139	0 0 1 4 0	0 0 1 4 1	0 0 1 4 2	0 0 1 4 3	0 0 1 4 4	0 0 1 4 5	00146	0 0 1 4 7	0 0 1 4 8	0 0 1 4 9	0 0 1 5

## **Alimentary System**

NONE

**Cardiovascular System** 

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin	+			+		+ +	+			+	+	+		+
Inflammation, Chronic Active	3					3					4	3		4
Ulcer	3			3		3	3			2	4	3		4
Skin, Control	+	+	+	+	+	+		+	+		+	+	+	+
Acanthosis	1	2	2	2	. 1	2		2	2		2	3	1	2
Inflammation, Chronic Active		1							1			2		

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

X .. Lesion present

A .. Autolysis precludes evaluation

2) Mild

1) Minimal 3) Moderate 4) Marked

I .. Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT Route: SKIN APPLICATION

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:43

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male TPA 5 COMPLETE	AY ON TEST	0 1 9 5 0 0 1 2	0 3 2 0 0 0 1 2 2	0 3 6 2 0 0 1 2 3	0 0 6 3 0 0 1 2 4	0 3 6 2 0 0 1 2 5	0 3 5 7 0 0 1 2 6	0 3 6 2 0 0 1 2 7	0 2 5 7 0 0 1 2 8	0 3 6 3 0 0 1 2 9	0 0 0 5 0 0 1 3 0	0 3 6 3 0 0 1 3 1	0 3 6 3 0 0 1 3 2	0 3 6 3 0 0 1 3 3	0 3 6 4 0 0 1 3 4	0 2 6 6 0 0 1 3 5	0 2 9 5 0 0 1 3 6	0 3 6 4 0 0 1 3 7	0 2 9 5 0 0 1 3 8	0 3 6 4 0 0 1 3 9	0 3 6 4 0 0 1 4 0	0 3 6 5 0 0 1 4 1	0 2 6 6 0 0 1 4 2	0 3 6 5 0 0 1 4 3	0 3 6 5 0 0 1 4 4	0 2 7 5 0 0 1 4 5	0 2 3 1 0 0 1 4 6	0 3 6 5 0 0 1 4 7	0 3 6 5 0 0 1 4 8	0 3 6 5 0 0 1 4 9	0 2 9 5 0 0 1 5 0
Skin, SOA-Mass Acanthosis							+			+					+						+				+						
Skin, SOA-No Mass		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis		3	3	2	3	3	2	2	2	2	2	3	3	3	3	3	2	2	2	2	4	3	4	2	2	2	4	4	2	2	3
Inflammation, Chronic Active		3	3	1		2	3	1	3	1	2	3	2	2	2	2			2	2			4	1	1	3	2		1	1	2
Ulcer		3	3				3		3			3											3			3		4			

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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: 10/19/2014 Time Report Requested: 18:35:43

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male TPA 5 COMPLETE

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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	9		
Inflammation, Chronic Active		5	3.4
Ulcer		8	3.1
Skin, Control	12		
Acanthosis		12	1.8
Inflammation, Chronic Active		3	1.3
Skin, SOA-Mass	5		

+ ..Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 18:35:43

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male TPA 5 COMPLETE

Species/Strain: Mouse/CD-1 CRL

### ANIMAL ID

	*TOTA	LS
Acanthosis	1	2.0
Skin, SOA-No Mass	30	
Acanthosis	30	2.6
Inflammation, Chronic Active	24	2.0
Ulcer	8	3.1

### Musculoskeletal System

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

1-4 ..Lesion qualified as:

4) Marked

I .. Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Experiment Number: 05117-05 P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Route: SKIN APPLICATION CAS Number: INIT/PROM

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:43

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male		0 2 8 5	0 3 0 6	0 3 6 2	0 3 4 1	0 3 6 2	0 3 4 8	0 3 6 2	0 3 6 2	0 3 6 3	0 2 3 0	0 3 6 3	0 3 2 7	0 0 3 6	0 3 4 8	0 2 1 9	0 3 3 5	0 3 6 3	0 3 2 0	0 2 4 3	0 2 9 3	0 3 6 3	0 3 1 4	0 3 6 4	0 3 6 4	0 3 6 4	0 3 6 5	0 3 4 8	0 3 6 5	0 3 4 8	0 3 6 5
	ANIMAL ID	0 0 1 5 1	0 0 1 5 2	0 0 1 5 3	0 0 1 5 4	0 0 1 5 5	0 0 1 5 6	0 0 1 5 7	0 0 1 5 8	0 0 1 5 9	0 0 1 6 0	0 0 1 6 1	0 0 1 6 2	0 0 1 6 3	0 0 1 6 4	0 0 1 6 5	0 0 1 6 6	0 0 1 6 7	00168	0 0 1 6 9	0 0 1 7 0	0 0 1 7 1	0 0 1 7 2	0 0 1 7 3	0 0 1 7 4	0 0 1 7 5	0 0 1 7 6	0 0 1 7	0 0 1 7 8	0 0 1 7 9	0 0 1 8 0

## **Alimentary System**

NONE

**Cardiovascular System** 

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin	+	+ +	+	+	+	+			
Acanthosis		3							
Inflammation, Chronic Active	3	3	3	3	4				
Ulcer	4	3	3	3	4	2			
Skin, Control	+ +		+ +	+ + +	+ +	+ + +	+	+ +	+
Acanthosis	2 1		2 1	2 1 2	2 2	2 1 1	1	1	1

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present
I ..Insufficient tissue

A .. Autolysis precludes evaluation

1) Minimal 3) Moderate

BLANK .. Not examined microscopically

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT Route: SKIN APPLICATION

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:43

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male MNNG100/COMPLETE	DAY ON TEST	0 2 8 5 0 0 1 5 1	0 3 0 6 0 0 1 5 2	0 3 6 2 0 0 1 5 3	0 3 4 1 0 0 1 5 4	0 3 6 2 0 0 1 5	0 3 4 8 0 0 1 5 6	0 3 6 2 0 0 1 5 7	0 3 6 2 0 0 1 5 8	0 3 6 3 0 0 1 5 9	0 2 3 0 0 0 1 6 0	0 3 6 3 0 0 1 6 1	0 3 2 7 0 0 1 6 2	0 0 3 6 0 0 1 6 3	0 3 4 8 0 0 1 6 4	0 2 1 9 0 0 1 6 5	0 3 3 5 0 0 1 6 6	0 3 6 3 0 0 1 6 7	0 3 2 0 0 0 1 6 8	0 2 4 3 0 0 1 6 9	0 2 9 3 0 0 1 7	0 3 6 3 0 0 1 7	0 3 1 4 0 0 1 7 2	0 3 6 4 0 0 1 7 3	0 3 6 4 0 0 1 7 4	0 3 6 4 0 0 1 7 5	0 3 6 5 0 0 1 7 6	0 3 4 8 0 0 1 7	0 3 6 5 0 0 1 7 8	0 3 4 8 0 0 1 7	0 3 6 5 0 0 1 8 0
Inflammation, Chronic Active		2	1												1						2						3				
Skin, SOA-Mass			+	+	+		+	+	+	+		+			+	+	+	+	+	+	+		+	+	+			+		+	+
Acanthosis					3															2											
Skin, SOA-No Mass		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+
Acanthosis		2	1	1	1	3	2	2	2	3	3	2	1	3	3	3	2	3	3	1	2	2	2	3	3	2	2		1	1	2
Inflammation, Chronic Active		2	1	1	1	3	1	1		3			3	3		2				1	2	1				1	3		3	3	1
Ulcer													3													2					

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

nn.

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

4) Marked

I .. Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:43

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male MNNG100/COMPLETE

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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	
Acanthosis	1	3.0
Inflammation, Chronic Active	5	3.2
Ulcer	6	3.2
Skin, Control	16	
Acanthosis	15	1.5
Inflammation, Chronic Active	5	1.8

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion presentI ..Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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: 10/19/2014 Time Report Requested: 18:35:43

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# **CD-1 CRL Mouse Male MNNG100/COMPLETE**

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

ANIMAL ID

	*TC	<u> </u>	LS
Skin, SOA-Mass	21		
Acanthosis		2	2.5
Skin, SOA-No Mass	29		
Acanthosis		29	2.1
Inflammation, Chronic Active		19	1.9
Ulcer		9	3.1

### **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1) Minimal 3) Moderate

1-4 ..Lesion qualified as:

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT Route: SKIN APPLICATION

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:43

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male BPO 20 COMPLETE

Species/Strain: Mouse/CD-1 CRL

DAY

AY 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
	3	2	3	3	2	2	3	3	3	3	3	2	3	3	3	2	3	3	3	3	3	3	3	3	2	3	3	3	3	3
	1	5	6	3	8	5	6	6	3	6	6	7	6	6	6	1	6	6	6	4	6	6	6	6	3	6	6	6	6	6
	3	8	2	5	5	6	2	2	4	2	2	2	3	3	3	5	3	3	4	8	4	4	4	4	1	5	5	5	5	5
A NIIMAA IID	0	0	0	0	0	0	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	0	0	0	0	0	0	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

## **Alimentary System**

NONE

Cardiovascular System

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin	+	+	+	+	+	+		+	+	+		+	+	+	+
Acanthosis					3										
Inflammation, Chronic Active	3	3	3	3		3		3		3			3	2	
Ulcer	4	4	4	4		3		4		3			4	2	
Skin, Control				+	+	+	+	+	+	+	+				
Acanthosis				2	1	1	2	2	1	2	1				

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

4) Marked

1) Minimal 3) Moderate

I ..Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT Route: SKIN APPLICATION

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:43

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male BPO 20 COMPLETE	AY ON TEST  ANIMAL ID	0 3 1 3 0 0 1 8 1	0 2 5 8 0 0 1 8 2	0 3 6 2 0 0 1 8 3	0 3 3 5 0 0 1 8 4	0 2 8 5 0 0 1 8 5	0 2 5 6 0 0 1 8 6	0 3 6 2 0 0 1 8 7	0 3 6 2 0 0 1 8 8	0 3 3 4 0 0 1 8 9	0 3 6 2 0 0 1 9	0 3 6 2 0 0 1 9	0 2 7 2 0 0 1 9 2	0 3 6 3 0 0 1 9 3	0 3 6 3 0 0 1 9 4	0 3 6 3 0 0 1 9 5	0 2 1 5 0 0 1 9 6	0 3 6 3 0 0 1 9 7	0 3 6 3 0 0 1 9 8	0 3 6 4 0 0 1 9	0 3 4 8 0 0 0 2 0	0 3 6 4 0 0 2 0	0 3 6 4 0 0 2 0 2	0 3 6 4 0 0 2 0 3	0 3 6 4 0 0 2 0 4	0 2 3 1 0 0 2 0 5	0 3 6 5 0 0 2 0 6	0 3 6 5 0 0 2 0 7	0 3 6 5 0 0 2 0 8	0 3 6 5 0 0 2 0 9	0 3 6 5 0 0 2 1 0
Inflammation, Chronic Active						1							1	1			2					1									
Skin, SOA-Mass Acanthosis																										+ 2					
Skin, SOA-No Mass			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+		+		+		+	+	+
Acanthosis			2	2	3	3	2	2	2	1	2	1	2	2	2	1	2	1	2		2	2	2		1		1		1	1	1
Inflammation, Chronic Active			1			1			1		1		3	1	3	1	2	1	1		1	2	1							1	
Ulcer													3		4		3														

## **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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: 10/19/2014 Time Report Requested: 18:35:43

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male BPO 20 COMPLETE

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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	13		
Acanthosis		1	3.0
Inflammation, Chronic Active		9	2.9
Ulcer		9	3.6
Skin, Control	8		
Acanthosis		8	1.5
Inflammation, Chronic Active		5	1.2

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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: 10/19/2014 Time Report Requested: 18:35:43

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male BPO 20 COMPLETE

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

ANIMAL ID

	*TC	)TA	LS
Skin, SOA-Mass	1		
Acanthosis		1	2.0
Skin, SOA-No Mass	25		
Acanthosis		25	1.7
Inflammation, Chronic Active		15	1.4
Ulcer		3	3.3

### **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1) Minimal 3) Moderate

1-4 ..Lesion qualified as:

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

**Route: SKIN APPLICATION** 

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:43

First Dose M/F: NA / NA

Lab: BAT

CD-1	CRL	Mouse	Male
MNN	G 100	)/BPO 2	0

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

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
_	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3
e	6	6	6	6	6	6	6	6	6	2	6	6	6	6	6	6	2	6	7	6	6	1	6	6	6	6	6	6	6	6
	2	2	2	2	2	2	3	3	3	0	3	3	3	4	4	4	0	4	2	4	4	3	4	5	5	5	5	5	5	5
V VIIVAVI 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
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
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4
	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		+	+ + +	+	+	+	+ +	+
Inflammation, Chronic Active				3	3	3		
Ulcer				3	4	3		
Skin, Control		+	+	+		+		
Acanthosis		1	1	2		1		
Skin, SOA-Mass	+							

+ .. 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

4) Marked 2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT Route: SKIN APPLICATION

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:44

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male MNNG 100/BPO 20	DAY ON TEST	0 3 6 2 0 0 2 1 1	0 3 6 2 0 0 2 1 2	0 3 6 2 0 0 2 1 3	0 3 6 2 0 0 2 1 4	0 3 6 2 0 0 2 1 5	0 3 6 2 0 0 2 1 6	0 3 6 3 0 0 2 1 7	0 3 6 3 0 0 2 1 8	0 3 6 3 0 0 2 1 9	0 2 2 0 0 0 2 2 2	0 3 6 3 0 0 2 2 1	0 3 6 3 0 0 2 2 2	0 3 6 3 0 0 2 2 3	0 3 6 4 0 0 2 2 4	0 3 6 4 0 0 2 2 5	0 3 6 4 0 0 2 2 6	0 3 2 0 0 0 2 2 7	0 3 6 4 0 0 2 2 8	0 2 7 2 0 0 2 2 9	0 3 6 4 0 0 2 3 0	0 3 6 4 0 0 2 3 1	0 3 1 3 0 0 2 3 2	0 3 6 4 0 0 2 3 3	0 3 6 5 0 0 2 3 4	0 3 6 5 0 0 2 3 5	0 3 6 5 0 0 2 3 6	0 3 6 5 0 0 2 3 7	0 3 6 5 0 0 2 3 8	0 3 6 5 0 0 2 3 9	0 3 6 5 0 0 2 4 0
Skin, SOA-No Mass		+	+	+	+	+		+	+	+	+				+	+	+	+	+	+	+	+	+	+			+	+		+	+
Acanthosis		1	1	1	2	2		2	1	1	2				1		1	2	1	2	1	2	2	1			1	3		1	2
Inflammation, Chronic Active	e					1		2		2	3					3				1		1	3	1				3			1
Ulcer		2						2			3					4		2					4					3			

Musculoskeletal System

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

4) Marked

I ..Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

### 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: 10/19/2014 Time Report Requested: 18:35:44

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male MNNG 100/BPO 20

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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	10		
Inflammation, Chronic Active		3	3.0
Ulcer		3	3.3
Skin, Control	4		
Acanthosis		4	1.3
Skin, SOA-Mass	1		
Skin, SOA-No Mass	23		

+ ..Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion presentI ..Insufficient tissue

A ..Autolysis precludes evaluation BLANK ..Not examined microscopically

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 18:35:44

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male MNNG 100/BPO 20

ANIMAL ID

	*TOTA	LS
Acanthosis	22	1.5
Inflammation, Chronic Active	11	1.9
Ulcer	7	2.9

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

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

X ..Lesion presentI ..Insufficient tissue

A .. Autolysis precludes evaluation

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

**Experiment Number: 05117-05** P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: INIT/PROM **Route: SKIN APPLICATION** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:44

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male	DAY ON TEST	0 3 6 2	0 2 1 5	0 2 8 4	0 3 6 2	0 3 6 2	0 0 4 6	0 3 6 2	0 3 6 2	0 1 7 5	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 3	0 1 7 3	0 3 3 4	0 3 6 4	0 2 4 6	0 3 6 4	0 3 4 1	0 3 6 4	0 3 0 6	0 3 1 3	0 3 6 4	0 0 8 7	0 3 6 4	0 3 6 5	0 3 3 5	0 3 6 5	0 3 6 5
	ANIMAL ID	0 0 2 4 1	0 0 2 4 2	0 0 2 4 3	0 0 2 4 4	0 0 2 4 5	0 0 2 4 6	0 0 2 4 7	0 0 2 4 8	0 0 2 4 9	0 0 2 5 0	0 0 2 5 1	0 0 2 5 2	0 0 2 5 3	0 0 2 5 4	0 0 2 5 5	0 0 2 5 6	0 0 2 5 7	897000	00259	00260	00261	00262	0 0 2 6 3	0 0 2 6 4	00265	00266	0 0 2 6 7	00268	00269	0 0 2 7 0

**Alimentary System** 

NONE

Cardiovascular System

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin	+		+	+	+	+	+
Acanthosis		2	2				
Alopecia	Χ						
Inflammation, Chronic Active		4	4		4	3	
Ulcer	3	4	4		4	3	4
Skin, Control	+	+					

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

X .. Lesion present I .. Insufficient tissue A .. Autolysis precludes evaluation

2) Mild

1) Minimal 3) Moderate 4) Marked

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

### P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT **Route: SKIN APPLICATION** 

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:44

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male MNNG 500/BPO 20	AY ON TEST	0 3 6 2 0 0 2 4 1	0 2 1 5 0 0 2 4 2	0 2 8 4 0 0 2 4 3	0 3 6 2 0 0 2 4 4	0 3 6 2 0 0 2 4 5	0 0 4 6 0 0 2 4 6	0 3 6 2 0 0 2 4 7	0 3 6 2 0 0 2 4 8	0 1 7 5 0 0 2 4 9	0 3 6 3 0 0 2 5 0	0 3 6 3 0 0 2 5	0 3 6 3 0 0 2 5 2	0 3 6 3 0 0 2 5 3	0 3 6 3 0 0 2 5 4	0 1 7 3 0 0 2 5 5	0 3 3 4 0 0 2 5 6	0 3 6 4 0 0 2 5 7	0 2 4 6 0 0 2 5 8	0 3 6 4 0 0 2 5 9	0 3 4 1 0 0 2 6 0	0 3 6 4 0 0 2 6 1	0 3 0 6 0 0 2 6 2	0 3 1 3 0 0 2 6 3	0 3 6 4 0 0 2 6 4	0 0 8 7 0 0 2 6 5	0 3 6 4 0 0 2 6 6	0 3 6 5 0 0 2 6 7	0 3 3 5 0 0 2 6 8	0 3 6 5 0 0 2 6 9	0 3 6 5 0 0 2 7 0
Acanthosis			2					1																							
Inflammation, Chronic Active			1																												
Skin, SOA-Mass		+	+			+										+				+											
Sebaceous GI, Hyperplasia						1																									
Skin, SOA-No Mass		+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	
Acanthosis		2	2	2	1	1		3	3	2	1		3	3	3	1	1	2	3		3	3	3	1	1	1	1	1		3	
Inflammation, Chronic Active		1	1	3	1		3	3	2	1				2	1		1	1	3		3	1	3	1		1			3	2	
Ulcer							3	3	3						2				3		3								3	2	

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

4) Marked

I .. Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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: 10/19/2014 Time Report Requested: 18:35:44

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male MNNG 500/BPO 20

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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		
Acanthosis		1	2.0
Alopecia		1	
Inflammation, Chronic Active		3	3.7
Ulcer		5	3.6
Skin, Control	2		
Acanthosis		2	1.5

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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: 10/19/2014 Time Report Requested: 18:35:44

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# **CD-1 CRL Mouse Male** MNNG 500/BPO 20

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

### ANIMAL ID

	*T(	<u>ATC</u>	<u>LS</u>
Inflammation, Chronic Active		1	1.0
Skin, SOA-Mass	5		
Sebaceous GI, Hyperplasia		1	1.0
Skin, SOA-No Mass	27		
Acanthosis		25	2.0
Inflammation, Chronic Active		20	1.9
Ulcer		8	2.8

## **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

1-4 ..Lesion qualified as:

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Experiment Number: 05117-05 P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Route: SKIN APPLICATION CAS Number: INIT/PROM

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:44

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male	DAY ON TEST e	0 1 7 5	0 3 6 2	0 3 0 6	0 2 9 6	0 3 2 7	0 3 4 8	0 1 9 7	0 3 0 0	0 3 5 7	0 1 9 7	0 3 6 3	0 2 5 8	0 2 2 4	0 2 3 8	0 2 2 9	0 2 0 0	0 3 6 3	0 3 6 4	0 3 6 4	0 2 1 9	0 1 2 6	0 2 4 6	0 2 7 7	0 2 9 9	0 2 8 5	0 3 6 5	0 1 9 5	0 1 7 4	0 3 6 5	0 3 6 5
	ANIMAL ID	0 0 2 7 1	0 0 2 7 2	0 0 2 7 3	0 0 2 7 4	0 0 2 7 5	0 0 2 7 6	0 0 2 7 7	0 0 2 7 8	0 0 2 7 9	0 0 2 8 0	0 0 2 8 1	0 0 2 8 2	0 0 2 8 3	0 0 2 8 4	0 0 2 8 5	0 0 2 8 6	0 0 2 8 7	00088	0 0 2 8 9	06800	0 0 2 9 1	0 0 2 9 2	0 0 2 9 3	0 0 2 9 4	00295	00096	0 0 2 9 7	0 0 2 9 8	00000	0 0 3 0

## **Alimentary System**

NONE

**Cardiovascular System** 

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin	+			+	+	+	+	+	+			+	+	+	+	+	+		+
Acanthosis														2					
Inflammation, Chronic Active	2			4	3			4	4			4	3		3	3	3		
Ulcer	3			4	4		4	4	4			4	3		4	3	3		
Skin, Control	+	+	+				+	+	+	+	+			+	+			+	
Acanthosis	3	1	2				1	1	1	1	1			2	1			3	

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

4) Marked

I ..Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

### P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT Route: SKIN APPLICATION

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:44

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male MNNG1000/BPO 20	ON TEST	0 1 7 5 0 0 2 7 1	0 3 6 2 0 0 2 7 2	0 3 0 6 0 0 2 7 3	0 2 9 6 0 0 2 7 4	0 3 2 7 0 0 2 7 5	0 3 4 8 0 0 2 7 6	0 1 9 7 0 0 2 7 7	0 3 0 0 0 0 2 7 8	0 3 5 7 0 0 2 7 9	0 1 9 7 0 0 2 8 0	0 3 6 3 0 0 2 8 1	0 2 5 8 0 0 2 8 2	0 2 2 4 0 0 2 8 3	0 2 3 8 0 0 2 8 4	0 2 2 9 0 0 2 8 5	0 2 0 0 0 0 2 8 6	0 3 6 3 0 0 2 8 7	0 3 6 4 0 0 2 8 8	0 3 6 4 0 0 2 8 9	0 2 1 9 0 0 2 9 0	0 1 2 6 0 0 2 9 1	0 2 4 6 0 0 2 9 2	0 2 7 7 0 0 2 9 3	0 2 9 9 0 0 2 9 4	0 2 8 5 0 0 2 9 5	0 3 6 5 0 0 2 9 6	0 1 9 5 0 0 2 9 7	0 1 7 4 0 0 2 9 8	0 3 6 5 0 0 2 9	0 3 6 5 0 0 3 0 0
Inflammation, Chronic Active						1										1							1		1					1	
Skin, SOA-Mass				+	+	+	+		+		+				+	+	+	+					+	+		+		+	+	+	
Skin, SOA-No Mass		+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acanthosis		3	2	3			2	3		3	3		3	3	3	1	3	2	1	1	2	2	2	3	2	3	1	3	2	3	
Hair Follicle, Cyst													Χ																		
Hemorrhage					2																										
Inflammation, Chronic Active		2	1			3		4	3	4	2		3	2	4	1	2			2		1	1	2	3			2	2	1	
Ulcer		3				3		4	4	4					4					2				2	4				2		

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Experiment Number: 05117-05 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: 10/19/2014 Time Report Requested: 18:35:44

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male MNNG1000/BPO 20

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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	14	
Acanthosis	1	2.0
Inflammation, Chronic Active	10	3.3
Ulcer	11	3.6
Skin, Control	11	
Acanthosis	11	1.5
Inflammation, Chronic Active	5	1.0

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild 4) Marked

1) Minimal 3) Moderate

I .. Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

**Experiment Number: 05117-05** 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: 10/19/2014 Time Report Requested: 18:35:44

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# **CD-1 CRL Mouse Male** MNNG1000/BPO 20

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

### ANIMAL ID

	*TC	<u> </u>	<u>LS</u>
Skin, SOA-Mass	16		
Skin, SOA-No Mass	28		
Acanthosis		25	2.4
Hair Follicle, Cyst		1	
Hemorrhage		1	2.0
Inflammation, Chronic Active		20	2.3
Ulcer		10	3.2

## **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

1-4 ..Lesion qualified as:

4) Marked

I .. Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

**Route: SKIN APPLICATION** Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014

Time Report Requested: 18:35:44

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male	DAY ON TEST	0 2 8	0 3 3	0 3 6	0 3 2	0 0 8	0 2 3	0 3 1	0 2 9	0 2 5	0 1 7	0 3 6	0 2 3	0 2 9	0 3 6	0 2 7	0 3 1	0 3 4	0 3 6	0 3 6	0 3 6	0 3 3	0 3 6	0 2 5	0 3 6	0 2 7	0 3 6	0 2 9	0 2 3	0 1 8	0 3 6
MNNG 100/TPA 5	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	8 0 0	0 0	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 2	3 0 3	3 0 4	3 0 5	3 0 6	3 0 7	3 0 8	3 0 9	3 1 0	3 1 1	3 1 2	3 1 3	3 1 4	3 1 5	3 1 6	3 1 7	3 1 8	3 1 9	3 2 0	3 2 1	3 2 2	3 2 3	3 2 4	3 2 5	3 2 6	3 2 7	3 2 8	3 2 9	3 3 0

**Alimentary System** 

NONE

**Cardiovascular System** 

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin	+	+	+		+	+	+			+	+	+	+							+		+	+	+
Acanthosis	4																							
Inflammation, Chronic Active	3	3	3		3	3	3					3	4							3		3	3	3
Ulcer	4	4	4		3	3	3			4	3	3								2		3	3	3
Skin, Control	+	+	+	+		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+
Acanthosis	2	1	1	3		2		2	1	2	3	1	2	3	2	2	2	2	1	2	2	2		3

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

X .. Lesion present

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1) Minimal 3) Moderate 2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT Route: SKIN APPLICATION

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:45

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male MNNG 100/TPA 5	ANIMAL ID	0 2 8 4 0 0 3 0 1	0 3 3 6 0 0 3 0 2	0 3 6 2 0 0 3 0 3	0 3 2 5 0 0 3 0 4	0 0 8 5 0 0 3 0 5	0 2 3 5 0 0 0 3 0 6	0 3 1 3 0 0 0 3 0 7	0 2 9 5 0 0 3 0 8	0 2 5 9 0 0 3 0 9	0 1 7 6 0 0 3 1 0	0 3 6 2 0 0 0 3 1 1	0 2 3 0 0 0 0 3 1 2	0 2 9 6 0 0 3 1 3	0 3 6 2 0 0 3 1 4	0 2 7 2 0 0 3 1 5	0 3 1 3 0 0 0 3 1 6	0 3 4 8 0 0 3 1 7	0 3 6 3 0 0 3 1 8	0 3 6 3 0 0 3 1 9	0 3 6 3 0 0 3 2 0	0 3 3 5 0 0 3 2 1	0 3 6 4 0 0 3 2 2	0 2 5 9 0 0 3 2 3	0 3 6 4 0 0 3 2 4	0 2 7 1 0 0 3 2 5	0 3 6 5 0 0 3 2 6	0 2 9 9 0 0 3 2 7	0 2 3 0 0 0 3 2 8	0 1 8 1 0 0 3 2 9	0 3 6 5 0 0 3 3 0
Inflammation, Chronic Active			1				1				2	1	1	2		1	1	1	2	1	1	1	1	1	1			1		2	
Skin, SOA-Mass					+		+		+			+			+				+	+	+							+			+
Skin, SOA-No Mass		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis		4	3	3	2	3	3	3	4	3	3	4	3	3	3		3	3	3	2	2	2	2	3	3	3	2	3	3	3	2
Inflammation, Chronic Active		3	2	2		3	1	1	3	2	3	2	4	3	2	3		3	2	1	1	3	1	2	1	2	1	2	2	2	1
Ulcer		4				3			3		3			3		3		4	3			4					2			2	

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

A .. Autolysis precludes evaluation

X ..Lesion presentI ..Insufficient tissue

A .. Autolysis precidues evaluation

1) Minimal 3) Moderate

1-4 ..Lesion qualified as:

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Experiment Number: 05117-05 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: 10/19/2014 Time Report Requested: 18:35:45

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male MNNG 100/TPA 5

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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	14	
Acanthosis	1	4.0
Inflammation, Chronic Active	12	3.1
Ulcer	13	3.2
Skin, Control	21	
Acanthosis	21	2.0
Inflammation, Chronic Active	18	1.2

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

A .. Autolysis precludes evaluation

Minimal 3) Moderate
 Mild 4) Marked

I .. Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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: 10/19/2014 Time Report Requested: 18:35:45

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male MNNG 100/TPA 5

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

### ANIMAL ID

	*TC	)TA	LS_
Skin, SOA-Mass	10		
Skin, SOA-No Mass	30		
Acanthosis		29	2.9
Inflammation, Chronic Active		28	2.1
Ulcer		11	3.1

### Musculoskeletal System

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

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

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

4) Marked

I ..Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

**Experiment Number: 05117-05** P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: INIT/PROM **Route: SKIN APPLICATION** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:45

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male	DAY ON TEST	0 2 4 9	0 2 3 6	0 3 6 2	0 1 9 5	0 1 7 3	0 2 2 4	0 1 7 5	0 2 9 3	0 3 6 3	0 2 2 7	0 3 6 4	0 1 6 8	0 1 9 7	0 1 7 5	0 2 3 6	0 2 9 3	0 3 6 5	0 1 7 6	0 2 4 3	0 3 3 4	0 2 9 9	0 2 4 6	0 3 0 6	0 2 4 3	0 1 2 8	0 2 9 3	0 1 7 5	0 2 9 9	0 2 3 1	0 2 7 1
	ANIMAL ID	0 0 3 3 1	0 0 3 3 2	0 0 3 3 3	0 0 3 3 4	0 0 3 3 5	0 0 3 3 6	0 0 3 3 7	00338	0 0 3 3 9	0 0 3 4 0	0 0 3 4 1	0 0 3 4 2	0 0 3 4 3	0 0 3 4 4	0 0 3 4 5	0 0 3 4 6	0 0 3 4 7	0 0 3 4 8	00349	0 0 3 5 0	0 0 3 5 1	0 0 3 5 2	0 0 3 5 3	0 0 3 5 4	0 0 3 5 5	00356	0 0 3 5 7	00358	00359	0 0 3 6

## **Alimentary System**

NONE

**Cardiovascular System** 

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis								4				
Inflammation, Chronic Active	3		2	4	3	3	3	3		3	4	3
Subcut Tiss, Edema		4										
Subcut Tiss, Infiltration Cellular, Mixed Cell								3				
Ulcer	3		2	4	3	3	4		4	2	4	3

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present I .. Insufficient tissue A .. Autolysis precludes evaluation

2) Mild

1) Minimal 3) Moderate 4) Marked

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT Route: SKIN APPLICATION

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:45

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male MNNG1000/TPA 5	DAY ON TEST  ANIMAL ID	0 2 4 9 0 0 3 3 1	0 2 3 6 0 0 3 3 2	0 3 6 2 0 0 3 3 3	0 1 9 5 0 0 3 3 4	0 1 7 3 0 0 3 3 5	0 2 2 4 0 0 3 3 6	0 1 7 5 0 0 3 3 7	0 2 9 3 0 0 3 3 8	0 3 6 3 0 0 3 3 9	0 2 2 7 0 0 3 4 0	0 3 6 4 0 0 3 4	0 1 6 8 0 0 3 4 2	0 1 9 7 0 0 3 4 3	0 1 7 5 0 0 3 4 4	0 2 3 6 0 0 3 4 5	0 2 9 3 0 0 3 4 6	0 3 6 5 0 0 3 4 7	0 1 7 6 0 0 3 4 8	0 2 4 3 0 0 3 4 9	0 3 4 0 0 3 5 0	0 2 9 9 0 0 3 5	0 2 4 6 0 0 3 5 2	0 3 0 6 0 0 3 5 3	0 2 4 3 0 0 3 5 4	0 1 2 8 0 0 3 5 5	0 2 9 3 0 0 3 5 6	0 1 7 5 0 0 3 5 7	0 2 9 9 0 0 3 5 8	0 2 3 1 0 0 3 5 9	0 2 7 1 0 0 3 6 0
Skin, Control		+	+			+	+		+		+				+		+				+	+	+	+	+		+		+		
Acanthosis		2	2			3	2		3						2		1				2	3	1	2	2		3		3		
Inflammation, Chronic Active		2	1			1	1		1						1		1					1	1	1	1				1		
Ulcer											1																				
Skin, SOA-Mass		+		+	+	+			+	+	+		+	+			+	+		+		+	+	+	+	+	+		+		+
Ulcer																										4					
Skin, SOA-No Mass		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis		3	3	4		3	3	3		4	3	2	1	1	2	3	1	3	2	3	3	3	3	2	3	2	3	3	3	2	3
Hair Follicle, Cyst										Χ															Χ						
Inflammation, Chronic Active		3		3		2	2	4	3	3	2	1		3	1	2		1	1	1	3	3	2	1	1	1		3	1	3	4
Ulcer				3					4	2				3							4							4	4		4

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion presentI ..Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CAS Number: INIT/PROM

Test Type: INIT/PROMOT **Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG) Date Report Requested: 10/19/2014

Time Report Requested: 18:35:45

First Dose M/F: NA / NA

Lab: BAT

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

**CD-1 CRL Mouse Male** MNNG1000/TPA 5

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
•	2	2	3	1	1	2	1	2	3	2	3	1	1	1	2	2	3	1	2	3	2	2	3	2	1	2	1	2	2	2
е	4	3	6	9	7	2	7	9	6	2	6	6	9	7	3	9	6	7	4	3	9	4	0	4	2	9	7	9	3	7
	9	6	2	5	3	4	5	3	3	7	4	8	7	5	6	3	5	6	3	4	9	6	6	3	8	3	5	9	1	1
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AMIMAL 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
	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	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

NONE

M .. Missing tissue

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

1-4 ..Lesion qualified as:

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

<sup>+ ..</sup> Tissue examined microscopically

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:** 10/19/2014 **Time Report Requested:** 18:35:45

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male MNNG1000/TPA 5

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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	12		
Acanthosis		1	4.0
Inflammation, Chronic Active		10	3.1
Subcut Tiss, Edema		1	4.0
Subcut Tiss, Infiltration Cellular, Mixed Cell		1	3.0
Ulcer		10	3.2
Skin, Control	15		

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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: 10/19/2014 Time Report Requested: 18:35:45

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Male MNNG1000/TPA 5

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

### ANIMAL ID

	*TOTA	\LS_
Acanthosis	14	2.2
Inflammation, Chronic Active	12	1.1
Ulcer	1	1.0
Skin, SOA-Mass	20	
Ulcer	1	4.0
Skin, SOA-No Mass	29	
Acanthosis	28	2.6
Hair Follicle, Cyst	2	
Inflammation, Chronic Active	25	2.2
Ulcer	8	3.5

## **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

1-4 ..Lesion qualified as:

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Experiment Number: 05117-05
Test Type: INIT/PROMOT

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 18:35:45

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL 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

+ .. Tissue examined microscopically

M .. Missing tissue

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

X ..Lesion presentI ..Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Experiment Number: 05117-05
Test Type: INIT/PROMOT

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 18:35:45

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male SENTINEL MALE

ANIMAL ID

\*TOTALS

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

\*\*\*END OF MALE DATA\*\*\*

M .. Missing tissue

A .. Autolysis precludes evaluation

X ..Lesion presentI ..Insufficient tissue

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

<sup>+ ..</sup> Tissue examined microscopically

**Experiment Number: 05117-05** P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: INIT/PROM **Route: SKIN APPLICATION** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:45

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CD-1 CRL Mouse Female	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	6	6	6	6	6	6	6	6	6	6	6	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
VEHICLE CONTROL	5	2	2	2	2	2	2	2	2	3	3	3	7	3	3	3	3	4	4	4	4	4	4	5	5	0	5	5	_ 5	_ 5
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
ANIIVIAL 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
	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	8	8	8	8	8	8	8	8	8	8	9
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

**Alimentary System** 

NONE

Cardiovascular System

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<del>+</del>
Inflammation, Chronic Active	4																												
Ulcer	4																												
Skin, SOA-No Mass	+																											+	
Acanthosis	2																											3	
Inflammation, Chronic Active																												3	

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

A .. Autolysis precludes evaluation

1) Minimal 3) Moderate 2) Mild

I .. Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: INIT/PROMOT **Route: SKIN APPLICATION**  **Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG) CAS Number: INIT/PROM

Time Report Requested: 18:35:45

Date Report Requested: 10/19/2014

3

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

Species/Strain: Mouse/CD-1 CRL

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
CD-1 CRL Mouse Female	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
CD-1 CIVE MICUSE I CITIALE	3	6	6	6	6	6	6	6	6	6	6	6	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
VEHICLE CONTROL	5	2	2	2	2	2	2	2	2	3	3	3	7	3	3	3	3	4	4	4	4	4	4	5	5	0	5	5	5	5
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
ANIWALIL	0	0	0	0	0	0	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	8	8	8	8	8	8	8	8	8	8	9
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

Ulcer

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

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

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

4) Marked

I .. Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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: 10/19/2014 Time Report Requested: 18:35:45

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Female VEHICLE CONTROL

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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	29		
Inflammation, Chronic Active		1	4.0
Ulcer		1	4.0
Skin, SOA-No Mass	2		
Acanthosis		2	2.5
Inflammation, Chronic Active		1	3.0
Ulcer		1	3.0

+ ..Tissue examined microscopically M ..Missing tissue

X ..Lesion present A ..Autolysis precludes evaluation

I ..Insufficient tissue BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 18:35:45

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# **CD-1 CRL Mouse Female VEHICLE CONTROL**

ANIMAL ID

\*TOTALS

Musculoskeletal System

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

A .. Autolysis precludes evaluation

X .. Lesion present I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Experiment Number: 05117-05 P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Route: SKIN APPLICATION CAS Number: INIT/PROM Fir

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:45

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CD-1 CRL Mouse Female	3	3	1	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
MNNG 100/ACETONE	2	2	4	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	0 4	4	4	4	4	5	5	5	5	5	5	5
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	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	0	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	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	, 0

**Alimentary System** 

NONE

Cardiovascular System

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

 Skin
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+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: INIT/PROMOT **Route: SKIN APPLICATION**  **Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG) CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:46

First Dose M/F: NA / NA

Lab: BAT

Species/Strain: Mouse/CD-1 CRL

DAY ON TEST CD-1 CRL Mouse Female MNNG 100/ACETONE	0	0	0	0	0	0	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	1	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	5	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
	2	2	4	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5
ANIMAL ID	$\overline{}$	0 0 3 9 2	0 0 3 9 3	0 0 3 9 4	0 0 3 9 5	0 0 3 9 6	0 0 3 9 7	0 0 3 9 8	00399	0 0 4 0 0	0 0 4 0 1	0 0 4 0 2	0 0 4 0 3	0 0 4 0 4	0 0 4 0 5	0 0 4 0 6	0 0 4 0 7	0 0 4 0 8	0 0 4 0 9	0 0 4 1 0	0 0 4 1 1	0 0 4 1 2	0 0 4 1 3	0 0 4 1 4	0 0 4 1 5	0 0 4 1 6	0 0 4 1 7	0 0 4 1 8	0 0 4 1 9	0 0 4 2 0

Musculoskeletal System

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

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

X ..Lesion present I .. Insufficient tissue A .. Autolysis precludes evaluation

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

### 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: 10/19/2014 Time Report Requested: 18:35:46

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# **CD-1 CRL Mouse Female MNNG 100/ACETONE**

**Experiment Number:** 05117-05 Test Type: INIT/PROMOT

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

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 21 Skin, SOA-No Mass 9

Acanthosis 7 1.3 1.2 Inflammation, Chronic Active Ulcer 1 2.0

**Musculoskeletal System** 

NONE

I .. Insufficient tissue

+ .. Tissue examined microscopically M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

4) Marked 2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

**Experiment Number: 05117-05** Test Type: INIT/PROMOT

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 18:35:46

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# **CD-1 CRL Mouse Female MNNG 100/ACETONE**

ANIMAL ID

\*TOTALS

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present I .. Insufficient tissue A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

4) Marked 2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Experiment Number: 05117-05 P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Route: SKIN APPLICATION CAS Number: INIT/PROM

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:46

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST  CD-1 CRL Mouse Female  MNNG 500/ACETONE	0	0	0	0	0	0	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	2	3	3	3	3	1	3	3	3	3	0	3	3	3	3	3	3	3	3	3	3	3	3	3
	6	6	6	6	6	6	5	6	6	6	6	7	6	6	6	6	4	6	6	6	6	6	6	6	6	6	6	6	6	6
	2	2	2	2	2	2	7	2	3	3	3	5	3	3	3	3	2	4	4	4	4	4	4	5	5	5	5	5	5	5
ANIMAL ID	0 0 4 2 1	0 0 4 2 2	0 0 4 2 3	0 0 4 2 4	0 0 4 2 5	0 0 4 2 6	0 0 4 2 7	0 0 4 2 8	0 0 4 2 9	0 0 4 3 0	0 0 4 3 1	0 0 4 3 2	0 0 4 3 3	0 0 4 3 4	0 0 4 3 5	0 0 4 3 6	0 0 4 3 7	0 0 4 3 8	0 0 4 3 9	0 0 4 4 0	0 0 4 4 1	0 0 4 4 2	0 0 4 4 3	0 0 4 4 4	0 0 4 4 5	0 0 4 4 6	0 0 4 4 7	0 0 4 4 8	0 0 4 4 9	0 0 4 5

## **Alimentary System**

NONE

**Cardiovascular System** 

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin	+ +	+	+	+ +			+ +	+ +
Skin, Control		+		+		+		+
Acanthosis		1		1		1		1
Inflammation, Chronic Active		1		1		1		
Skin, SOA-Mass		+	+		+ +	+ +		+
Acanthosis					3			

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion presentI ..Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT **Route: SKIN APPLICATION** 

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:46

First Dose M/F: NA / NA

Lab: BAT

DAY ON TO CD-1 CRL Mouse Female MNNG 500/ACETONE ANIMA	AL ID	0 3 6 2 0 0 4 2 1	0 3 6 2 0 0 4 2 2	0 3 6 2 0 0 4 2 3	0 3 6 2 0 0 4 2 4	0 3 6 2 0 0 4 2 5	0 3 6 2 0 0 4 2 6	0 2 5 7 0 0 4 2 7	0 3 6 2 0 0 4 2 8	0 3 6 3 0 0 4 2 9	0 3 6 3 0 0 4 3 0	0 3 6 3 0 0 4 3 1	0 1 7 5 0 0 4 3 2	0 3 6 3 0 0 4 3 3	0 3 6 3 0 0 4 3 4	0 3 6 3 0 0 4 3 5	0 3 6 3 0 0 4 3 6	0 0 4 2 0 0 4 3 7	0 3 6 4 0 0 4 3 8	0 3 6 4 0 0 4 3 9	0 3 6 4 0 0 4 4 4 0	0 3 6 4 0 0 4 4 1	0 3 6 4 0 0 4 4 4 2	0 3 6 4 0 0 4 4 3	0 3 6 5 0 0 4 4 4	0 3 6 5 0 0 4 4 5	0 3 6 5 0 0 4 4 6	0 3 6 5 0 0 4 4 7	0 3 6 5 0 0 4 4 8	0 3 6 5 0 0 4 4 9	0 3 6 5 0 0 4 5 0
Skin, SOA-No Mass		+	+			+		+	+	+		+	+					+	+	+				+			+				+
Acanthosis		2	1			1		2	1	1		1	3					3	2	1				1			1				1
Hair Follicle, Cyst		Χ																	Χ												
Inflammation, Chronic Active		1	1			1		1	1	1		1	4						1	1				1			1				1
Ulcer													4					2													

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

A .. Autolysis precludes evaluation

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion present I .. Insufficient tissue

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

### 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: 10/19/2014 Time Report Requested: 18:35:46

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Female MNNG 500/ACETONE

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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	10		
Skin, Control	4		
,	7		
Acanthosis		4	1.0
Inflammation, Chronic Active		3	1.0
Skin, SOA-Mass	7		
Acanthosis		1	3.0
Skin, SOA-No Mass	14		

+ ..Tissue examined microscopically M ..Missing tissue

X ..Lesion present A ..Autolysis precludes evaluation

I ..Insufficient tissue BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Experiment Number: 05117-05 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: 10/19/2014 Time Report Requested: 18:35:46

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Female MNNG 500/ACETONE

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

ANIMAL ID

	*TOTALS	<u>;                                    </u>
Acanthosis	14 1.	5
Hair Follicle, Cyst	2	
Inflammation, Chronic Active	13 1.	2
Ulcer	2 3.	0

## **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

1-4 ..Lesion qualified as:

4) Marked

I .. Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

#### **Experiment Number: 05117-05** P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: INIT/PROM **Route: SKIN APPLICATION** 

Date Report Requested: 10/19/2014

Time Report Requested: 18:35:46

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CD-1 CRL Mouse Female	1 5	2	3	0	2	3	0	2	0	3	3	3	3	3	3	2	1 q	3	3	3	2	2	3	1	2	3	3	3	3	3
MNNG1000/ACETONE	1	7	2	o 1	0	2	5	7	3	2	2	2	3	3	4	0	4	0 4	4	4	4	9	5	3	9	5	5	5	5	6
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
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	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	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** 

Test Type: INIT/PROMOT

Species/Strain: Mouse/CD-1 CRL

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin	+	+	+	+	+	+	+	+
Acanthosis	4					3		
Alopecia						Χ		
Inflammation, Chronic Active	4	4		3	3	4	4	3
Subcut Tiss, Infiltration Cellular, Mixed Cell	3							
Ulcer	4	4		3	3	4	4	3

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

4) Marked

I .. Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CAS Number: INIT/PROM

Test Type: INIT/PROMOT Test Compound:

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

Time Report Requested: 18:35:46

Date Report Requested: 10/19/2014

First Dose M/F: NA / NA

Lab: BAT

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

CD-1 CRL Mouse Female MNNG1000/ACETONE	AY ON TEST ANIMAL ID	1 5 1	0 2 6 7 0 0 4 5	0 3 6 2 0 0 4 5 3	0 8 1 0 0 4 5 4	0 2 3 0 0 0 4 5	0 3 6 2 0 0 4 5 6	0 9 5 0 0 4 5 7	0 2 6 7 0 0 4 5 8	0 0 4 3 0 0 4 5 9	0 3 6 2 0 0 4 6 0	0 3 6 2 0 0 4 6 1	0 3 6 2 0 0 4 6 2	0 3 6 3 0 0 4 6 3	0 3 6 3 0 0 4 6 4	0 3 6 4 0 0 4 6 5	0 2 3 0 0 0 4 6 6	0 1 9 4 0 0 4 6 7	0 3 6 4 0 0 4 6 8	0 3 6 4 0 0 4 6 9	0 3 6 4 0 0 4 7 0	0 2 1 4 0 0 4 7	0 2 2 9 0 0 4 7 2	0 3 6 5 0 0 4 7 3	0 1 8 3 0 0 4 7 4	0 2 1 9 0 0 4 7 5	0 3 3 5 0 0 4 7 6	0 3 6 5 0 0 4 7	0 3 6 5 0 0 4 7 8	0 3 6 5 0 0 4 7	0 3 1 6 0 0 4 8 0
Skin, Control										+							+														
Acanthosis																	2														
Inflammation, Chronic Active										2																					
Ulcer										4																					
Skin, SOA-Mass		+							+				+	+			+		+			+	+								+
Skin, SOA-No Mass		+	+	+	+		+	+	+			+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
Acanthosis		3	3	3	1		1					2	2	1	2	1	2	2	1	2	1		2	1		3	1	2	1	1	
Hair Follicle, Cyst																					Χ		Χ								
Inflammation, Chronic Active		3	3	4					4			4	1		2	1	3	3		1	1		1		3	3		1	1	1	3
Ulcer								3	4			4					3	3													3

## **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

### 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: 10/19/2014 Time Report Requested: 18:35:46

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# **CD-1 CRL Mouse Female** MNNG1000/ACETONE

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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	8		
Acanthosis		2	3.5
Alopecia		1	
Inflammation, Chronic Active		7	3.6
Subcut Tiss, Infiltration Cellular, Mixed Cell		1	3.0
Ulcer		7	3.6
Skin, Control	2		

+ .. Tissue examined microscopically

M .. Missing tissue

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

X .. Lesion present I .. Insufficient tissue

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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: 10/19/2014 Time Report Requested: 18:35:46

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# **CD-1 CRL Mouse Female** MNNG1000/ACETONE

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

ANIMAL ID

	*TOTA	<u>LS</u>
Acanthosis	1	2.0
Inflammation, Chronic Active	1	2.0
Ulcer	1	4.0
Skin, SOA-Mass	9	
Skin, SOA-No Mass	26	
Acanthosis	22	1.7
Hair Follicle, Cyst	2	
Inflammation, Chronic Active	19	2.3
Ulcer	6	3.3

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

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

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Experiment Number: 05117-05 P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Route: SKIN APPLICATION CAS Number: INIT/PROM

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:46

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CD-1 CRL Mouse Female	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	9	3	2	3	3	3	3	3	3	3	2	3	3	3
TPA 5 COMPLETE	0	2	2	2	2	2	3	3	3	3	3	3	3	4	<i>0 4</i>	4	4	4	1 1	4	4	5	5	5	5	5	9	0	5	5
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 4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	0 5	5
	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 9	1

**Alimentary System** 

NONE

Cardiovascular System

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin													+	+	+					+	
Acanthosis														2							
Ulcer															4					3	
Skin, Control	+	+	+	+	+	-	+	+	+	+	+	+			+	+	+	+	+	+	+
Acanthosis	3	2	3	1	1	:	2	2	2	2	2	2			3	2	2	2	2	3	1
Inflammation, Chronic Active		1	1	1	1		1	1	1	1	1						2		2	2	1

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

4) Marked

I ..Insufficient tissue

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT Route: SKIN APPLICATION

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:47

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST CD-1 CRL Mouse Female TPA 5 COMPLETE ANIMAL ID	3 6 0	0 3 6 2 0 0 4 8 2	0 3 6 2 0 0 4 8 3	0 3 6 2 0 0 4 8 4	0 3 6 2 0 0 4 8 5	0 3 6 2 0 0 4 8 6	0 3 6 3 0 0 4 8 7	0 3 6 3 0 0 4 8 8	0 3 6 3 0 0 4 8 9	0 3 6 3 0 0 4 9	0 3 6 3 0 0 4 9	0 3 6 3 0 0 4 9 2	0 3 6 3 0 0 4 9 3	0 3 6 4 0 0 4 9 4	0 3 6 4 0 0 4 9 5	0 3 6 4 0 0 4 9 6	0 1 9 4 0 0 4 9 7	0 3 6 4 0 0 4 9 8	0 2 2 1 0 0 4 9	0 3 6 4 0 0 5 0	0 3 6 4 0 0 5 0	0 3 6 5 0 0 5 0 2	0 3 6 5 0 0 5 0 3	0 3 6 5 0 0 5 0 4	0 3 6 5 0 0 5 0 5	0 3 6 5 0 0 5 0 6	0 2 1 9 0 0 5 0 7	0 3 0 0 0 0 5 0 8	0 3 6 5 0 0 5 0 9	0 3 6 5 0 0 5 1
Skin, SOA-Mass Acanthosis		+		+								+								•		+	+		·	·		•		
Skin, SOA-No Mass	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+		+	+	+	+	+	+
Acanthosis	2	3	2	2	3	2	3	2	3	3	2	2	2	3	1		4		4	3	2	3	2		2	2	2	3	1	2
Inflammation, Chronic Active	3	3	1	1	3	2	2	2	2	2	1	1	1	2				1	3	3	2	3			2	2	3	3	2	2
Ulcer	3	4			4														4	4							3		2	

## **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

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

X ..Lesion presentI ..Insufficient tissue

A .. Autolysis precludes evaluation

2) Mild

4) Marked

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

### 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: 10/19/2014 Time Report Requested: 18:35:47

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Female TPA 5 COMPLETE

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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		1	2.0
Ulcer		2	3.5
Skin, Control	18		
Acanthosis		18	2.1
Inflammation, Chronic Active		13	1.2
Skin, SOA-Mass	5		

+ ..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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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: 10/19/2014 Time Report Requested: 18:35:47

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# **CD-1 CRL Mouse Female TPA 5 COMPLETE**

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

### ANIMAL ID

	*TOTALS		
Acanthosis		1	3.0
Skin, SOA-No Mass	28		
Acanthosis		27	2.4
Inflammation, Chronic Active		25	2.1
Ulcer		7	3.4

### Musculoskeletal System

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

A .. Autolysis precludes evaluation

I .. Insufficient tissue

X ..Lesion present

BLANK .. Not examined microscopically

2) Mild

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Experiment Number: 05117-05 P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Route: SKIN APPLICATION CAS Number: INIT/PROM

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:47

First Dose M/F: NA / NA

Lab: BAT

DAY ON	N 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
CD-1 CRL Mouse Female		3	3	3	3	3	3	2	3	3	3	3	3	3	3	2	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3
MNNG100/COMPLETE		2	2	2	7	1	<i>4 7</i>	8 7	2	2	3	3	3	6	3	2	3	3	5	4	0 4	6 4	4	5	5	5	<i>2 6</i>	5	3	<i>4 7</i>	5
	MAL 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
		5	5	5	5	5	5	5	5	5	5	5	5 3	5 5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		¦	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	ა 5	ა 6	7	ა 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								-	+						+				+			+		
Inflammation, Chronic Active															3									
Ulcer								3	3						3							3		
Skin, Control	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	 +	+	+	+		+	+
Acanthosis	2	1	3	2	1	1	2	•	1	2	1	1	1	1	2	1		1	3	1	2		1	2
Inflammation, Chronic Active	1	1	2	2	1	1				2	1	1	1	1	2	1			1	1	2			1

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion presentI ..Insufficient tissue

A .. Autolysis precludes evaluation

2) Mild

4) Marked

BLANK ..Not examined microscopically

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: INIT/PROMOT **Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:47

First Dose M/F: NA / NA

Lab: BAT

DAY ON TES  CD-1 CRL Mouse Female  MNNG100/COMPLETE  ANIMAL I	3 6 2	0 3 6 2 0 0 5 1 2	0 3 6 2 0 0 5 1 3	0 3 4 7 0 0 5 1 4	0 3 2 1 0 0 5 1 5	0 3 4 7 0 0 5 1 6	0 2 8 7 0 0 5 1 7	0 3 6 2 0 0 5 1 8	0 3 6 2 0 0 5 1 9	0 3 6 3 0 0 5 2	0 3 6 3 0 0 5 2	0 3 6 3 0 0 5 2 2	0 3 1 6 0 0 5 2 3	0 3 6 3 0 0 5 2 4	0 2 9 2 0 0 5 2 5	0 3 6 3 0 0 5 2 6	0 2 9 3 0 0 5 2 7	0 3 3 5 0 0 5 2 8	0 3 6 4 0 0 5 2	0 3 6 4 0 0 5 3 0	0 3 6 4 0 0 5 3	0 3 6 4 0 0 5 3 2	0 3 6 5 0 0 5 3 3	0 3 6 5 0 0 5 3 4	0 3 6 5 0 0 5 3 5	0 3 2 6 0 0 5 3 6	0 3 6 5 0 0 5 3 7	0 3 1 3 0 0 5 3 8	0 3 4 7 0 0 5 3 9	0 3 6 5 0 0 5 4 0
Skin, SOA-Mass	+	+		+	+	+	+		+			+	+	+	+	+	+			+	+	+	+	+	+				+	
Acanthosis													4																	
Skin, SOA-No Mass		+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+
Acanthosis		1	3	3	2	1		3	2	2	2	2	2	1	2	2	2	3	2		2	1	2	2	3	2	2	2	1	2
Hemorrhage																										3				
Inflammation, Chronic Active		4	2	2	2	1		1	2	2	1	2	2	1	2	1	2	3	2		2	1	1	2	3	2	2	3	3	1
Ulcer		4							3									3				2			4			3	2	

#### **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion present I .. Insufficient tissue A .. Autolysis precludes evaluation

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:47

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

### CD-1 CRL Mouse Female MNNG100/COMPLETE

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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		
Inflammation, Chronic Active		1	3.0
Ulcer		3	3.0
Skin, Control	22		
Acanthosis		22	1.5
Inflammation, Chronic Active		17	1.3
Skin, SOA-Mass	20		

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:47

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

### CD-1 CRL Mouse Female MNNG100/COMPLETE

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

ANIMAL ID

	*TOTALS
Acanthosis	1 4.0
Skin, SOA-No Mass	27
Acanthosis	27 2.0
Hemorrhage	1 3.0
Inflammation, Chronic Active	27 1.9
Ulcer	7 3.0

#### **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

1-4 ..Lesion qualified as:

4) Marked

I ..Insufficient tissue

BLANK .. Not examined microscopically

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL **Experiment Number:** 05117-05

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

**Route: SKIN APPLICATION** 

**CAS Number: INIT/PROM** 

Date Report Requested: 10/19/2014

Time Report Requested: 18:35:47

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

DAY ON TEST **CD-1 CRL Mouse Female**  *3* 1 **BPO 20 COMPLETE** 0 5 4 2 0 0 5 5 5 ANIMAL ID 5 5 5 5 5 Õ 5 4 5 5 4 8 5 4 9 5 5 6 5 5 9 5 6 2 5 6 9 4 5 2 5 3 5 8 6 8 5 0 5 7 6 0 5 

**Alimentary System** 

NONE

Cardiovascular System

Test Type: INIT/PROMOT

Species/Strain: Mouse/CD-1 CRL

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin													-	+ +		+		+	+	+			+	+	+		
Skin, Control						+	+		+	+					+												
Acanthosis						1	1		1	1					1												
Inflammation, Chronic Active										1					1												
Skin, SOA-No Mass	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+				+	+	+			+	+
Acanthosis	1	1	2	4	1	1	1	1	2	2	1	1	1		1	1	1				1	1	1			1	1

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/19/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:35:47 First Dose M/F: NA / NA

**Route: SKIN APPLICATION** 

CAS Number: INIT/PROM

Lab: BAT

DAY ON TEST CD-1 CRL Mouse Female BPO 20 COMPLETE ANIMAL ID	0 3 6 2 0 0 5 4 1	0 3 6 2 0 0 5 4 2	0 3 6 2 0 0 5 4 3	0 3 6 2 0 0 5 4 4	0 3 6 2 0 0 5 4 5	0 3 6 2 0 0 5 4 6	0 3 6 2 0 0 5 4 7	0 3 6 3 0 0 5 4 8	0 3 6 3 0 0 5 4 9	0 3 2 1 0 0 5 5	0 3 6 3 0 0 5 5	0 3 6 3 0 0 5 5	0 3 6 3 0 0 5 5	0 3 6 3 0 0 5 5	0 3 6 3 0 0 5 5	0 3 6 4 0 0 5 5 6	0 3 6 4 0 0 5 5 7	0 3 6 4 0 0 5 5 8	0 3 6 4 0 0 5 5 9	0 3 6 4 0 0 5 6 0	0 3 6 4 0 0 5 6	0 3 6 4 0 0 5 6 2	0 3 6 4 0 0 5 6 3	0 3 6 5 0 0 5 6 4	0 3 6 5 0 0 5 6 5	0 3 6 5 0 0 5 6 6	0 3 6 5 0 0 5 6 7	0 3 6 5 0 0 5 6 8	0 3 6 5 0 0 5 6 9	0 3 6 5 0 0 5 7
Inflammation, Chronic Active Ulcer	1		1	3	1		1	1	1	1		1	1			1			1				4	1					1	1

Musculoskeletal System

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

1) Minimal 3) Moderate 4) Marked

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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

CAS Number: INIT/PROM

**Date Report Requested:** 10/19/2014 **Time Report Requested:** 18:35:47

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

### CD-1 CRL Mouse Female BPO 20 COMPLETE

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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	9		
Skin, Control	5		
Acanthosis		5	1.0
Inflammation, Chronic Active		2	1.0
Skin, SOA-No Mass	21		
Acanthosis		21	1.3
Inflammation, Chronic Active		16	1.3

+ ..Tissue examined microscopically M ..Missing tissue

X ..Lesion present A ..Autolysis precludes evaluation

I ..Insufficient tissue BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

**Experiment Number: 05117-05** Test Type: INIT/PROMOT

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 18:35:47

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

### **CD-1 CRL Mouse Female BPO 20 COMPLETE**

ANIMAL ID

\*TOTALS 2 3.5

**Musculoskeletal System** 

NONE

Ulcer

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present I .. Insufficient tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

#### Experiment Number: 05117-05 P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Route: SKIN APPLICATION CAS Number: INIT/PROM

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:47

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST  CD-1 CRL Mouse Female  MNNG 100/BPO 20	0	0	0	0	0	0	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	2	3	3	3	3	3	3	3	3	3	1	3	3	3	3	3	3	3	3	3	3	3
	6	6	6	6	6	6	6	6	5	6	6	6	6	6	6	6	6	6	7	6	6	6	6	6	6	6	6	6	6	6
	2	2	2	2	2	2	2	3	1	3	3	3	3	3	3	4	4	4	6	4	4	4	4	5	5	5	5	5	5	5
ANIMAL ID	0 0 5 7	0 0 5 7 2	0 0 5 7 3	0 0 5 7 4	0 0 5 7 5	0 0 5 7 6	0 0 5 7	0 0 5 7 8	0 0 5 7 9	0 0 5 8 0	0 0 5 8 1	0 0 5 8 2	00583	0 0 5 8 4	00585	0 0 5 8 6	0 0 5 8 7	00588	0 0 5 8 9	0 0 5 9	0 0 5 9 1	00592	00593	0 0 5 9 4	00595	00596	0 0 5 9 7	0 0 5 9 8	0 0 5 9	0 0 6 0

### **Alimentary System**

NONE

**Cardiovascular System** 

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin		+	+	+	+
Acanthosis					3
Hair Follicle, Cyst		X			
Inflammation, Chronic Active		4			4
Ulcer		4			
Skin, Control	+		+	+	+

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CAS Number: INIT/PROM

Test Type: INIT/PROMOT

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

Time Report Requested: 18:35:48

Date Report Requested: 10/19/2014

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

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

**CD-1 CRL Mouse Female** MNNG 100/BPO 20

DAY ON TEST	0 3 6	0 2 5	0 3 6	0 3 6	0 3 6	0 3 6	0 3 6	0 3 6	0 3 6	0 3 6	0 3 6	0 1 7	0 3 6	0 3 6	0 3 6	0 3 6	0 3 6	0 3 6	0 3 6	0 3 6	0 3 6	0 3 6	0 3 6							
	2	2	2	2	2	2	2	3	1	3	3	3	3	3	3	4	4	4	6	4	4	4	4	5	5	5	5	5	5	5
ANIMAL ID	0 0 5 7	0 0 5 8	0 0 5 8	0 0 5 8	0 0 5 8	0 0 5 8	0 0 5 8	0 0 5 8	0 0 5 8	0 0 5 8	0 0 5 8	0 0 5 9	0 0 5 9	0 0 5 9	0059	0059	0 0 5 9	0059	0059	0 0 5 9	0 0 5 9	0 0 6 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

	7	7 2	7	7 4	7 5	7 6	7 7	7 8	7 9	8	8 1	8 2	8	8 4	8 5	8 6	8 7	8 8	8 9	9	9	9	9	9 4	9 5	9 6	9 7	9 8	9
Acanthosis					1						1								1	_									
Inflammation, Chronic Active					1						1						1		1										
Ulcer																	2												
Skin, SOA-Mass											+				+		+												
Skin, SOA-No Mass	+	+	+	+	+	+	+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis	1	2	1	1	1	1	1	2	2	2	1		2	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
Inflammation, Chronic Active	1	1	1	1	1	1	1	1	2	1	1		1	2			1	1	1	1	1	1	1		1	1	1	1	1

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

A .. Autolysis precludes evaluation

1) Minimal 3) Moderate 4) Marked 2) Mild

I .. Insufficient tissue

BLANK .. Not examined microscopically

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:48

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

### CD-1 CRL Mouse Female MNNG 100/BPO 20

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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		1	3.0
Hair Follicle, Cyst		1	
Inflammation, Chronic Active		2	4.0
Ulcer		1	4.0
Skin, Control	4		
Acanthosis		3	1.0

+ ..Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion present
I ..Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:48

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

### CD-1 CRL Mouse Female MNNG 100/BPO 20

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

#### ANIMAL ID

	*TOTA	<u>LS</u>
Inflammation, Chronic Active	4	1.0
Ulcer	1	2.0
Skin, SOA-Mass	3	
Skin, SOA-No Mass	28	
Acanthosis	28	1.2
Inflammation, Chronic Active	26	1.1

#### **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

2) Mild

1-4 ..Lesion qualified as:

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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

CAS Number: INIT/PROM **Route: SKIN APPLICATION** First Dose M/F: NA / NA

Species/Strain: Mouse/CD-1 CRL

**Experiment Number: 05117-05** 

Test Type: INIT/PROMOT

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:48

Lab: BAT

DAY ON TEST CD-1 CRL Mouse Female MNNG 500/BPO 20	0 3 6 2	0 3 6 2	0 3 6 2	0 2 1 4	0 3 6 2	0 3 6 2	0 2 1 0	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 3	0 3 6 3	0 3 4 7	0 3 6 4	0 3 6 4	0 3 6 4	0 1 5	0 3 6 4	0 2 3 0	0 2 4	0 3 6 4	0 3 6 5	0 3 1	0 2 5 1	0 3 6 5	0 2 2	0 3 6 5	0 3 6 5	0 2 8 6	0 3 6 5
ANIMAL ID	0 0 6 0 1	0 0 6 0 2	00603	0 0 6 0 4	0 0 6 0 5	0 0 6 0 6	0 0 6 0 7	0 0 6 0 8	00609	0 0 6 1 0	0 0 6 1 1	00612	0 0 6 1 3	0 0 6 1 4	0 0 6 1 5	0 0 6 1 6	0 0 6 1 7	0 0 6 1 8	0 0 6 1 9	0 0 6 2	0 0 6 2	0 0 6 2 2	0 0 6 2 3	0 0 6 2 4	0 0 6 2 5	0 0 6 2 6	0 0 6 2 7	0 0 6 2 8	0 0 6 2	0 0 6 3 0

### **Alimentary System**

NONE

**Cardiovascular System** 

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin			+	+							+	+			+	
Alopecia															Χ	
Inflammation, Chronic Active				3							4	4				
Ulcer				3								4				
Skin, Control	+	+	+	+	+	+	+		+	+		+		+	+	
Acanthosis	1	1	1	2	1	1	1		1	2		1		1	1	

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

A .. Autolysis precludes evaluation

1) Minimal 3) Moderate 2) Mild

I .. Insufficient tissue

BLANK .. Not examined microscopically

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT **Route: SKIN APPLICATION** 

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Time Report Requested: 18:35:48

Date Report Requested: 10/19/2014

Lab: BAT

CD-1 CRL Mouse Female MNNG 500/BPO 20	Y ON TEST	0 3 6 2 0 0 6 0 1	0 3 6 2 0 0 6 0 6	0 3 6 2 0 0 6 0 6 0 3	0 2 1 4 0 0 0 6 0 4	0 3 6 2 0 0 6 0 6	0 3 6 2 0 0 6 0 6	0 2 1 9 0 0 6 0 7	0 3 6 3 0 0 6 0 6	0 3 6 3 0 0 6 0 9	0 3 6 3 0 0 6 1 0	0 3 6 3 0 0 6 1 1	0 3 6 3 0 0 6 1 2	0 3 4 7 0 0 6 1 3	0 3 6 4 0 0 6 1 4	0 3 6 4 0 0 6 1 5	0 3 6 4 0 0 6 1 6	0 1 5 4 0 0 6 1 7	0 3 6 4 0 0 6 1 8	0 2 3 0 0 0 6 1 9	0 2 4 1 0 0 6 2 0	0 3 6 4 0 0 6 2	0 3 6 5 0 0 6 2 2	0 3 1 4 0 0 6 2 3	0 2 5 1 0 0 6 2 4	0 3 6 5 0 0 6 2 5	0 2 2 4 0 0 6 2 6	0 3 6 5 0 0 6 2 7	0 3 6 5 0 0 6 2 8	0 2 8 6 0 0 6 2 9	0 3 6 5 0 0 6 3 0
Inflammation, Chronic Active		1	1			1	1		1	1			1	2						1							1				
Skin, SOA-Mass					+			+	+			+		+			+	+						+	+			+		+	+
Skin, SOA-No Mass		+	+	+	+	+	+		+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis		1	1	3	3	2	1		1	1	1	1	1	3	1	1	2		1	2	2	1	1	2	3	1	1	3	1	1	1
Inflammation, Chronic Active Ulcer		1	1	2	2	1	1		1	1	1	1	1	3	1	1	1			4 3	1	1	1	1	2	1	1		1	1	1

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

A .. Autolysis precludes evaluation

1) Minimal 3) Moderate

X ..Lesion present I .. Insufficient tissue

BLANK .. Not examined microscopically

2) Mild 4) Marked

1-4 ..Lesion qualified as:

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:48

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

### CD-1 CRL Mouse Female MNNG 500/BPO 20

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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		
Alopecia		1	
Inflammation, Chronic Active		3	3.7
Ulcer		2	3.5
Skin, Control	12		
Acanthosis		12	1.2
Inflammation, Chronic Active		10	1.1

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Experiment Number: 05117-05 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: 10/19/2014 Time Report Requested: 18:35:48

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

### CD-1 CRL Mouse Female MNNG 500/BPO 20

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

#### ANIMAL ID

	*TC	<u> </u>	<u>LS</u>
Skin, SOA-Mass	12		
Skin, SOA-No Mass	28		
Acanthosis		28	1.5
Inflammation, Chronic Active		26	1.3
Ulcer		2	3.0

#### Musculoskeletal System

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1) Minimal 3) Moderate

X ..Lesion presentI ..Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

2) Mild 4) Marked

1-4 ..Lesion qualified as:

Page 88

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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

CAS Number: INIT/PROM **Route: SKIN APPLICATION** First Dose M/F: NA / NA

Species/Strain: Mouse/CD-1 CRL

**Experiment Number: 05117-05** 

Test Type: INIT/PROMOT

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:48

Lab: BAT

DAY ON TEST CD-1 CRL Mouse Female MNNG1000/BPO 20	0	0	0	0	0	0	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	2	3	3	3	3	2	3	2	3	3	3	2	2	3	3	3	1	3	1	3	3	2	2	0	1	3	3
	6	4	6	8	2	6	6	6	0	6	9	6	6	6	1	6	6	6	6	5	6	3	6	6	9	1	4	6	6	6
	2	7	2	4	6	2	2	3	7	3	3	3	3	4	4	6	4	4	4	1	5	7	5	5	3	5	8	9	5	5
ANIMAL ID	0 0 6 3 1	0 0 6 3 2	0 0 6 3 3	0 0 6 3 4	0 0 6 3 5	0 0 6 3 6	0 0 6 3 7	0 0 6 3 8	0 0 6 3 9	0 0 6 4 0	0 0 6 4 1	0 0 6 4 2	0 0 6 4 3	0 0 6 4 4	0 0 6 4 5	0 0 6 4 6	0 0 6 4 7	0 0 6 4 8	0 0 6 4 9	0 0 6 5 0	0 0 6 5 1	0 0 6 5 2	0 0 6 5 3	0 0 6 5 4	00655	0 0 6 5 6	0 0 6 5 7	0 0 6 5 8	00659	0 0 6 6

#### **Alimentary System**

NONE

**Cardiovascular System** 

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin	+	+			+ + +			+	+	+
Acanthosis									3	
Inflammation, Chronic Active					3			3		4
Ulcer					3			3		4
Skin, Control	+	+	+	+		+	+	+		
Acanthosis	2	2	1	2		2	2	1		

+ .. 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

4) Marked 2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Route: SKIN APPLICATION
Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:48

First Dose M/F: NA / NA

Lab: BAT

DAY ON CD-1 CRL Mouse Female MNNG1000/BPO 20 ANIM	MAL ID	0 3 6 2 0 0 6 3 1	0 3 4 7 0 0 6 3 2	0 3 6 2 0 0 6 3 3	0 2 8 4 0 0 6 3 4	0 3 2 6 0 0 6 3 5	0 3 6 2 0 0 6 3 6	0 3 6 2 0 0 6 3 7	0 3 6 3 0 0 6 3 8	0 2 0 7 0 0 6 3 9	0 3 6 3 0 0 6 4 0	0 2 9 3 0 0 6 4 1	0 3 6 3 0 0 6 4 2	0 3 6 3 0 0 6 4 3	0 3 6 4 0 0 6 4 4	0 2 1 4 0 0 6 4 5	0 2 6 6 0 0 6 4 6	0 3 6 4 0 0 6 4 7	0 3 6 4 0 0 6 4 8	0 3 6 4 0 0 6 4 9	0 1 5 1 0 0 6 5 0	0 3 6 5 0 0 6 5 1	0 1 3 7 0 0 6 5 2	0 3 6 5 0 0 6 5 3	0 3 6 5 0 0 6 5 4	0 2 9 3 0 0 6 5 5	0 2 1 5 0 0 6 5 6	0 0 4 8 0 0 6 5 7	0 1 6 9 0 0 6 5 8	0 3 6 5 0 0 6 5 9	0 3 6 5 0 0 6 6 6
Inflammation, Chronic Active		•				1				1																	1				
Skin, SOA-Mass Ulcer			+			+				+		+	+		+					+	+	+	+ 4			+					+
Skin, SOA-No Mass		+	+		+		+	+	+	+	+	+		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis		4	3				2	1	2	2	1	2		3	1	2			2	2	4	1	3	2	1	1	3	3	1	1	2
Inflammation, Chronic Active		2	2		4		1		2	1		1		2	1	1	4				4	2	4	1	1		3	2	4	1	
Ulcer					4												3				4		4						4		

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion presentI ..Insufficient tissue

A .. Autolysis precludes evaluation

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:48

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

### CD-1 CRL Mouse Female MNNG1000/BPO 20

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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	8		
Acanthosis		1	3.0
Inflammation, Chronic Active		3	3.3
Ulcer		3	3.3
Skin, Control	7		
Acanthosis		7	1.7
Inflammation, Chronic Active		3	1.0

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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

**CAS Number: INIT/PROM** 

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:48

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Female MNNG1000/BPO 20

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

#### ANIMAL ID

	*TOTAL	<u>_S</u>
Skin, SOA-Mass	12	
Ulcer	1	4.0
Skin, SOA-No Mass	26	
Acanthosis	24	2.0
Inflammation, Chronic Active	20	2.2
Ulcer	5	3.8

#### **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1) Minimal 3) Moderate

1-4 ..Lesion qualified as:

X ..Lesion present

I ..Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

2) Mild 4) Marked

D

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

#### Experiment Number: 05117-05 P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Route: SKIN APPLICATION CAS Number: INIT/PROM

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:48

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST  CD-1 CRL Mouse Female  MNNG 100/TPA 5	0	0	0	0	0	0	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	1	3	3	3	3	3	3	3	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
	5	6	6	6	1	6	6	1	0	6	6	6	6	6	6	7	8	6	6	6	6	6	6	6	6	0	6	6	2	6
	0	2	2	2	5	2	2	3	0	2	3	3	3	3	3	3	6	3	4	4	4	4	4	5	5	0	5	5	6	5
ANIMAL ID	0 0 6 6 1	0 0 6 6 2	0 0 6 6 3	0 0 6 6 4	00665	0 0 6 6 6	0 0 6 6 7	0 0 6 6 8	00669	0 0 6 7 0	0 0 6 7 1	0 0 6 7 2	0 0 6 7 3	0 0 6 7 4	0 0 6 7 5	0 0 6 7 6	0 0 6 7 7	0 0 6 7 8	0 0 6 7 9	0 0 6 8 0	0 0 6 8 1	0 0 6 8 2	0 0 6 8 3	0 0 6 8 4	0 0 6 8 5	0 0 6 8 6	0 0 6 8 7	0 0 6 8 8	0 0 6 8 9	0 0 6 9

#### **Alimentary System**

NONE

**Cardiovascular System** 

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin				+	+				+	
Inflammation, Chronic Active				3	3				3	
Ulcer				4	4				3	
Skin, Control	+	+	+	+	+	+	+	+	+ +	
Acanthosis	2	2	3	1	2	2	2	2	3 1	
Inflammation, Chronic Active	2	2	2		1	1		1	2 1	

+ .. 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

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Test Type: INIT/PROMOT Route: SKIN APPLICATION

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:49

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST CD-1 CRL Mouse Female MNNG 100/TPA 5 ANIMAL II	3 5 0	0 3 6 2 0 0 6 6 2	0 3 6 2 0 0 6 6 6 3	0 3 6 2 0 0 6 6 6 4	0 3 1 5 0 0 6 6 5	0 3 6 2 0 0 6 6 6 6	0 3 6 2 0 0 6 6 6 7	0 1 1 3 0 0 6 6 8	0 3 0 0 0 0 6 6 9	0 3 6 2 0 0 6 7 0	0 3 6 3 0 0 6 7 1	0 3 6 3 0 0 6 7 2	0 3 6 3 0 0 6 7 3	0 3 6 3 0 0 6 7 4	0 3 6 3 0 0 6 7 5	0 2 7 3 0 0 6 7 6	0 2 8 6 0 0 6 7 7	0 3 6 3 0 0 6 7 8	0 3 6 4 0 0 6 7 9	0 3 6 4 0 0 6 8 0	0 3 6 4 0 0 6 8 1	0 3 6 4 0 0 6 8 2	0 3 6 4 0 0 6 8 3	0 3 6 5 0 0 6 8 4	0 3 6 5 0 0 6 8 5	0 3 0 0 0 0 6 8 6	0 3 6 5 0 0 6 8 7	0 3 6 5 0 0 6 8 8	0 3 2 6 0 0 6 8 9	0 3 6 5 0 0 6 9
Skin, SOA-Mass Acanthosis	+			+		+					+		+		+	+	+		+	+	+ 3			+	+		+		+	+
Skin, SOA-No Mass	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis	3	4	3	3	3	3	4	3	3	4	4			1	2			1	3	2	3	2		2	2	3	3	2	3	4
Inflammation, Chronic Active	2	3	1	2	2	2	1	2	2	3	2	4		1	1	3		1	1	1	1	1	3	1	1	3	2	2	1	3
Ulcer		3			2					3		4				3	4						3			3				

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

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

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:49

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

### CD-1 CRL Mouse Female MNNG 100/TPA 5

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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		
Inflammation, Chronic Active		3	3.0
Ulcer		3	3.7
Skin, Control	10		
Acanthosis		10	2.0
Inflammation, Chronic Active		8	1.5
Skin, SOA-Mass	16		

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

I .. Insufficient tissue

BLANK .. Not examined microscopically

Z) IVIIIG

4) Marked

1) Minimal 3) Moderate

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:49

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

# CD-1 CRL Mouse Female MNNG 100/TPA 5

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

#### ANIMAL ID

	*TOT	ALS
Acanthosis	1	3.0
Skin, SOA-No Mass	29	
Acanthosis	25	2.8
Inflammation, Chronic Active	28	1.9
Ulcer	8	3.1

#### **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

1-4 ..Lesion qualified as:

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

#### **Experiment Number: 05117-05** P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: INIT/PROM **Route: SKIN APPLICATION** 

Date Report Requested: 10/19/2014

Time Report Requested: 18:35:49

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CD-1 CRL Mouse Female MNNG1000/TPA 5	3 6 2	1 3 3	3 6 2	3 6 2	2 3 7	2 3 1	1 9 7	3 6 2	2 5 1	3 6 3	3 6 3	3 6 3	0 4 7	3 6 4	3 6 4	1 9 5	3 6 4	3 1 4	3 6 4	3 6 5	3 6 5	3 6 5	2 5 8	3 1 4	1 3 9	1 7 9	2 6 6	3 2 1	3 6 5	3 4 1
ANIMAL ID	0 0 6 9	0 0 6 9	0 0 6 9	0 0 6 9	0 0 6 9	0 0 6 9	0 0 6 9	0 0 6 9	0 0 6 9	0 0 7 0	0 0 7 0	0 0 7 0	0 0 7 0	0 0 7 0	0 0 7 0	0 0 7 0	0 0 7 0	0 0 7 0	0 0 7 0	0 0 7 1	0 0 7 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	0

**Alimentary System** 

NONE

Cardiovascular System

Test Type: INIT/PROMOT

Species/Strain: Mouse/CD-1 CRL

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin				+		+	+	+	+	
Inflammation, Chronic Active				4		2		3	2	
Ulcer				4		2		3	2	
Skin, Control	+	+ +	+		+	+ +	+ +	+ +		+
Acanthosis	2	2 2	1		1	1 1	2 2	3 3	<b>;</b>	1
Inflammation, Chronic Active	1	1 2	1			1	1	2 2	<u>)</u>	1

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X .. Lesion present I .. Insufficient tissue A .. Autolysis precludes evaluation

4) Marked 2) Mild

BLANK .. Not examined microscopically

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014
Time Report Requested: 18:35:49

First Dose M/F: NA / NA

Lab: BAT

DA	AY 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
<b>CD-1 CRL Mouse Female</b>	•	3	1	3	3	2	2	1 9	3	5	3	3	3	0	3	3	1	<b>3 6</b>	3	3	3	3	3	2	3	1	1	2	3	3	3
MNNG1000/TPA 5		<b>6 2</b>	3	2	6 2	7	1	7	6 2	1	6 3	6 3	6 3	7	6 4	4	5	4	4	6 4	5	5	5	8	4	9	9	6	2 1	5	1
	ANIMAL ID	0	00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0	0	00	0	0	0	0
		6	0 6	0 6	0 6	0 6	6	0 6	0	0	0 7	0 7	0 7	0 7	0 7	0	7	0	0 7	0	0 7	7	0 7	0 7	0 7	0 7	7	7	0	0 7	0
		9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0 8	0 9	1	1	1	1	1	1 5	1	1	1 8	1 9	2
Skin, SOA-Mass		+	+	+	+			+		+		'			+	+			+			+		<u>J</u>	7		0	+	+	+	+
Skin, SOA-No Mass		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis			2	2	3	3	2	2	2	4	2	2	1		2	1			3	1	4	3	2	2	2	2	3	3	2	4	3
Hair Follicle, Cyst			Χ																												
Inflammation, Chronic Active		3	3	1	1	2	4	4	2	2	3	1	1	3	1	1	2		2	1	3	2	1		4	1	2		3	2	2
Ulcer		3	3				4	4						3			3				3				4				3		

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M ..Missing tissue

A .. Autolysis precludes evaluation

X ..Lesion presentI ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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

CAS Number: INIT/PROM

Date Report Requested: 10/19/2014 Time Report Requested: 18:35:49

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

### CD-1 CRL Mouse Female MNNG1000/TPA 5

**Experiment Number: 05117-05** 

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

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	
Inflammation, Chronic Active	4	2.8
Ulcer	4	2.8
Skin, Control	12	
Acanthosis	12	1.8
Inflammation, Chronic Active	9	1.3
Skin, SOA-Mass	14	

+ ..Tissue examined microscopically

M .. Missing tissue

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Experiment Number: 05117-05 P09: NO

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: 10/19/2014 Time Report Requested: 18:35:49

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

### CD-1 CRL Mouse Female MNNG1000/TPA 5

Species/Strain: Mouse/CD-1 CRL

Test Type: INIT/PROMOT

**Route: SKIN APPLICATION** 

#### ANIMAL ID

	*TC	<u> </u>	<u>LS</u>
Skin, SOA-No Mass	29		
Acanthosis		26	2.4
Hair Follicle, Cyst		1	
Inflammation, Chronic Active		27	2.1
Ulcer		9	3.3

#### **Musculoskeletal System**

NONE

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

+ .. Tissue examined microscopically

M .. Missing tissue

1) Minimal 3) Moderate

X ..Lesion present

A .. Autolysis precludes evaluation

2) Mild

1-4 ..Lesion qualified as:

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

Experiment Number: 05117-05
Test Type: INIT/PROMOT

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 18:35:49

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

### **CD-1 CRL 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

+ .. Tissue examined microscopically

M .. Missing tissue

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

X ..Lesion presentI ..Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

2) Mild 4) Marked

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

**Experiment Number: 05117-05** Test Type: INIT/PROMOT

Species/Strain: Mouse/CD-1 CRL

**Route: SKIN APPLICATION** 

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: 10/19/2014 Time Report Requested: 18:35:49

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

**CD-1 CRL Mouse Female SENTINEL FEMALE** 

ANIMAL ID

\*TOTALS

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

\*\* END OF REPORT \*\*

M .. Missing tissue

X .. Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

<sup>+ ..</sup> Tissue examined microscopically