

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:50
First Dose M/F: NA / NA
Lab: BAT

C Number: C61994B
Lock Date: 04/07/1992
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date 04/27/1994

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DAY ON TEST	ANIMAL ID																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CD-1 CRL Mouse Male	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
VEHICLE CONTROL	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	9	4	4	5	5	6	5	5	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acanthosis																															
Inflammation, Chronic Active																															
Ulcer																															
Ulcer, Multiple																															
Skin, Control																															

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

Experiment Number: 051117-02

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/CD-1 CRL

Lab: BAT

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

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

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

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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	25		
Acanthosis	2	3.0	
Inflammation, Chronic Active	2	4.0	
Ulcer	1	4.0	
Ulcer, Multiple	1	4.0	
Skin, Control	2		
Acanthosis	1	1.0	

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DAY ON TEST

CD-1 CRL Mouse Male
VEHICLE CONTROL

	ANIMAL ID	<u>*TOTALS</u>	
Inflammation, Chronic Active		1	1.0
Skin, SOA-No Mass		4	
Acanthosis		4	2.0
Inflammation, Chronic Active		4	2.5
Ulcer		1	4.0
Ulcer, Multiple		1	4.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

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CD-1 CRL Mouse Male DMBA0.25/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
	3	3	3	3	2	3	2	3	1	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3
	6	6	6	6	2	6	8	6	4	6	6	6	6	6	6	6	6	6	6	6	6	9	6	6	6	6	6	6	6
	1	1	1	1	2	1	1	1	8	2	2	2	2	2	3	3	3	3	3	3	4	4	7	4	4	4	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	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

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	+	+		+	+	+	+	+	+	+		+	+	+	+	+	+		+	+		+	+	+		+		
Acanthosis																												
Inflammation, Chronic Active																												
Ulcer																												
Ulcer, Multiple																												
Skin, Control																												

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	0	0	0	0	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 Male	3	3	3	3	2	3	2	3	1	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3
DMBA0.25/ACETONE	6	6	6	6	2	6	8	6	4	6	6	6	6	6	6	6	6	6	6	6	6	9	6	6	6	6	6	6
	1	1	1	1	2	1	1	1	8	2	2	2	2	2	3	3	3	3	3	4	4	7	4	4	0	5	5	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	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

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

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

DAY ON TEST

CD-1 CRL Mouse Male
DMBA0.25/ACETONE

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		
Acanthosis	4	3.0	
Inflammation, Chronic Active	4	4.0	
Ulcer	1	4.0	
Ulcer, Multiple	3	4.0	
Skin, Control	1		
Inflammation, Chronic Active	1	3.0	

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

+ ..Tissue examined microscopically

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DAY ON TEST

CD-1 CRL Mouse Male
DMBA0.25/ACETONE

ANIMAL ID	*TOTALS
Skin, SOA-Mass	1
Skin, SOA-No Mass	8
Acanthosis	8 2.5
Inflammation, Chronic Active	7 2.4
Ulcer, Multiple	2 4.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

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		DAY ON TEST																												
CD-1 CRL Mouse Male DMBA 2.5/ACETONE	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	
		3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
		6	6	6	6	6	6	6	6	6	6	6	6	6	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
		1	1	1	1	1	2	2	2	2	2	2	3	0	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	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	+	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+		+		+	+	+	+	+	+	
Acanthosis													3														3		
Inflammation, Chronic Active													4														4		
Ulcer, Multiple													4														4		
Skin, Control																													
Acanthosis																													

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	0	0	0	0	0	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 Male	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
DMBA 2.5/ACETONE	6	6	6	6	6	6	6	6	6	6	6	6	6	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	2	2	2	2	2	2	3	0	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	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

Skin, SOA-No Mass																														
Acanthosis																														
Inflammation, Chronic Active																														
Musculoskeletal System																														
NONE																														
Nervous System																														
NONE																														
Respiratory System																														
NONE																														
Special Senses System																														
NONE																														
Urinary System																														
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DAY ON TEST

CD-1 CRL Mouse Male
DMBA 2.5/ACETONE

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	25		
Acanthosis	2	3.0	
Inflammation, Chronic Active	2	4.0	
Ulcer, Multiple	2	4.0	
Skin, Control	1		
Acanthosis	1	1.0	
Skin, SOA-No Mass	5		

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+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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DAY ON TEST

CD-1 CRL Mouse Male
DMBA 2.5/ACETONE

	ANIMAL ID	
		<u>*TOTALS</u>
Acanthosis	4	2.0
Inflammation, Chronic Active	5	2.2
Musculoskeletal System		
NONE		
Nervous System		
NONE		
Respiratory System		
NONE		
Special Senses System		
NONE		
Urinary System		
NONE		

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:51

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST	ANIMAL ID																											
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CD-1 CRL Mouse Male	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
DMBA 25/ACETONE	6	6	6	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	1	1	1	6	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	5	5	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	0	0	0	0	0	0	0	0	0	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	
	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	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	

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

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

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

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:51

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST	ANIMAL ID																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CD-1 CRL Mouse Male	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
DMBA 25/ACETONE	6	6	6	9	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
	1	1	1	6	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	5	5	5	6	5	5

Inflammation, Chronic Active	1																											
Skin, SOA-Mass	+																											
Skin, SOA-No Mass	+																											
Acanthosis	2																											
Inflammation, Chronic Active	1																											
Musculoskeletal System	NONE																											
Nervous System	NONE																											
Respiratory System	NONE																											
Special Senses System	NONE																											
Urinary System	NONE																											

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

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:51
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
DMBA 25/ACETONE

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	23		
Acanthosis	2	2.5	
Inflammation, Chronic Active	2	4.0	
Ulcer	2	4.0	
Skin, Control	1		
Acanthosis	1	2.0	
Inflammation, Chronic Active	1	1.0	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:51
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
DMBA 25/ACETONE

	ANIMAL ID	*TOTALS	
Skin, SOA-Mass		1	
Skin, SOA-No Mass		7	
Acanthosis		5	1.8
Inflammation, Chronic Active		5	1.2
Musculoskeletal System			
NONE			
Nervous System			
NONE			
Respiratory System			
NONE			
Special Senses System			
NONE			
Urinary System			
NONE			

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:52

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male DMBA2.5/COMPLETE	DAY ON TEST																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	2	3	1	3	3	3	2	3	3	3	3	2	2	3	3	3	3	3	3	3	3	3	3
	6	6	6	3	6	6	9	6	4	6	6	6	5	6	6	5	1	7	6	5	6	6	6	6	6	5	5	6	6
	1	1	1	3	1	2	2	2	8	2	2	3	0	3	3	7	5	4	6	7	4	4	4	4	4	4	7	7	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9

Acanthosis																														
Inflammation, Chronic Active																														
Skin, SOA-Mass	+	+	+	+																										
Acanthosis																														
Skin, SOA-No Mass	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acanthosis	4	3	1	1	4	2	2	2		3	4	3	2	3	3		2	1	2		4	2	1	3	1	2	1	4	3	
Inflammation, Chronic Active	2	4		1	4	1	4		2	1	3	4	2	2	4		2	1	4		3	2	1	2	1	2	2		4	1
Ulcer	4	4			4		4					4		4	4					4		4								
Ulcer, Multiple																														4

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:52
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
DMBA2.5/COMPLETE

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	5		
Acanthosis	2	2.0	
Alopecia	1		
Inflammation, Chronic Active	5	4.0	
Ulcer	5	4.0	
Skin, Control	9		
Acanthosis	7	1.1	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:52
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
DMBA2.5/COMPLETE

ANIMAL ID	<u>*TOTALS</u>	
Inflammation, Chronic Active	7	1.1
Skin, SOA-Mass	24	
Acanthosis	1	3.0
Skin, SOA-No Mass	28	
Acanthosis	26	2.4
Inflammation, Chronic Active	25	2.4
Ulcer	9	4.0
Ulcer, Multiple	1	4.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:52

First Dose M/F: NA / NA

Lab: BAT

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

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	+					+		+	+				+						+		+	+		+											
Acanthosis	2							3		3	3			3						3		3	2		2										
Alopecia										X																									
Inflammation, Chronic Active	4							4		4	4			4						4		4	4		4										
Ulcer								4																											
Ulcer, Multiple	4									4	4			4						4		4	4		4										

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 051117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:52

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male TPA 5/ COMPLETE	DAY ON TEST																														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	3	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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
	1	1	1	1	1	2	1	2	9	2	2	3	3	3	3	4	4	4	4	2	4	2	2	2	5	1	9	5	3		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	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	
Skin, Control	+	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Acanthosis	2	2		1	2		1	2		1										3	2	1	3								
Inflammation, Chronic Active	1	1		1	1		2	1	1	2	1	1	3							2	1		2								
Skin, SOA-Mass				+																											
Skin, SOA-No Mass	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acanthosis	3	2	3	3	3	3	3	3	3	4	3	2	3	3	3	3	3	3	3	3	2	2	2	2	2	2	3	2	3	2	3
Inflammation, Chronic Active	4	2	2	3	2	2	2	4	3	4	2	2	4	3	3	4	2	4	2	3	2	4	2	2	4	4	2	4	2	3	
Ulcer	4								4											4											
Ulcer, Multiple				4						4	4			4		4											4				4
Musculoskeletal System																															
NONE																															
Nervous System																															
NONE																															
Respiratory System																															
NONE																															
Special Senses System																															
NONE																															
Urinary System																															
NONE																															

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

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:52
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
TPA 5/ COMPLETE

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	10	
Acanthosis	10	2.7
Alopecia	1	
Inflammation, Chronic Active	10	4.0
Ulcer	1	4.0
Ulcer, Multiple	9	4.0
Skin, Control	23	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:52
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
TPA 5/ COMPLETE

ANIMAL ID	*TOTALS	
Acanthosis	19	1.8
Inflammation, Chronic Active	22	1.5
Skin, SOA-Mass	3	
Skin, SOA-No Mass	30	
Acanthosis	30	2.7
Inflammation, Chronic Active	30	2.9
Ulcer	7	4.0
Ulcer, Multiple	7	4.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:52
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
BPO 20/ COMPLETE

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	5		
Acanthosis	3	3.0	
Inflammation, Chronic Active	3	4.0	
Ulcer	1	4.0	
Ulcer, Multiple	2	4.0	
Skin, Control	11		
Acanthosis	9	1.2	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:52
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
BPO 20/ COMPLETE

ANIMAL ID	*TOTALS	
Inflammation, Chronic Active	11	1.4
Ulcer	1	4.0
Skin, SOA-Mass	1	
Skin, SOA-No Mass	28	
Acanthosis	27	1.9
Inflammation, Chronic Active	28	2.1
Ulcer	6	4.0
Ulcer, Multiple	4	4.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:52

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male DMBA0.25/ 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	
	3	3	3	3	3	3	3	3	2	1	2	3	3	3	3	2	3	1	3	3	3	1	3	3	3	3	3	3	2	3
	1	6	6	6	6	6	6	6	9	7	4	6	6	4	6	0	6	3	6	0	6	6	6	6	6	6	6	6	3	6
	3	1	1	1	1	2	2	2	5	3	1	2	3	2	3	9	3	8	3	7	4	5	4	4	4	5	5	5	0	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	0	0	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	
	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	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	

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	+		+					+	+			+	+					+	+										+
Acanthosis	3		2					3	2				3					2	3										3
Alopecia														X															
Cyst Epithelial Inclusion														X															
Inflammation, Chronic Active	4		4					4	4				4					4	4										4
Ulcer	4								4									4	4										

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:53

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male DMBA0.25/ 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	
	3	3	3	3	3	3	3	3	2	1	2	3	3	3	3	2	3	1	3	3	3	1	3	3	3	3	3	3	2	3
	1	6	6	6	6	6	6	6	9	7	4	6	6	4	6	0	6	3	6	0	6	6	6	6	6	6	6	6	3	6
	3	1	1	1	1	2	2	2	5	3	1	2	3	2	3	9	3	8	3	7	4	5	4	4	4	5	5	5	0	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
	0	0	0	0	0	0	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	4	4
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

Ulcer, Multiple									4						4															4
Skin, Control			+	+					+	+	+	+	+		+	+				+						+			+	+
Acanthosis			1	1					3	2	1	3	2		2	2				1						2			2	
Inflammation, Chronic Active									2	2	2	2	2		2	2			1					1			1		1	1
Skin, SOA-Mass						+		+	+	+		+	+		+	+			+	+	+	+	+	+						+
Skin, SOA-No Mass	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis	3	3	3	3	3	2	3	3	3	2	2	3	3	1	2	3	3	3	1	2	3	2	3	2	1	3	3	2	2	2
Inflammation, Chronic Active	2	3	2	4	2	1	3	4	3	2	2	3	4	1	2	4	2	4	1	4	3	2	4	2	1	4	4	1	2	1
Ulcer			4									4						4		4		4								
Ulcer, Multiple				4			4	4	4				4			4				4		4			4	4				

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:53
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
DMBA0.25/ TPA 5

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		
Acanthosis	8	2.6	
Alopecia	1		
Cyst Epithelial Inclusion	1		
Inflammation, Chronic Active	8	4.0	
Ulcer	4	4.0	
Ulcer, Multiple	3	4.0	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 051117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:53
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
DMBA0.25/ TPA 5

ANIMAL ID	*TOTALS	
Skin, Control	14	
Acanthosis	13	1.8
Inflammation, Chronic Active	12	1.6
Skin, SOA-Mass	16	
Skin, SOA-No Mass	30	
Acanthosis	30	2.5
Inflammation, Chronic Active	30	2.6
Ulcer	5	4.0
Ulcer, Multiple	10	4.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:53

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male DMBA 2.5/ 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	
ANIMAL ID	3	2	3	3	3	3	2	3	3	2	3	1	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	2	
	6	5	6	6	6	6	6	6	6	1	5	5	2	3	6	3	2	6	5	6	5	6	6	1	4	1	6	6	6	9	
	1	0	1	1	2	2	1	2	3	7	1	2	9	9	3	0	0	3	6	4	7	4	5	8	3	8	5	5	5	2	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Acanthosis																															
Inflammation, Chronic Active																															
Skin, SOA-Mass	+	+		+	+	+				+	+	+		+	+					+	+	+	+	+	+		+	+	+	+	
Skin, SOA-No Mass	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis	3	3	3	2	3	4	3	3	3	2	2	3	3	1	4	3	3	3	2	3	3	4	2	4	2	2	2	3	3	3	
Inflammation, Chronic Active	3	2	4	1	4	2	4	4	2	4	4	4	4		4	4	4	4	2	4	4	3	1	4	2	4	2	4	2		
Ulcer			4	4								4	4	4			4	4	4	4					4		4				
Ulcer, Multiple	4				4		4	4					4									4	4							4	
Musculoskeletal System																															
NONE																															
Nervous System																															
NONE																															
Respiratory System																															
NONE																															
Special Senses System																															
NONE																															
Urinary System																															
NONE																															

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

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:53
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
DMBA 2.5/ TPA 5

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		
Acanthosis	8	2.8	
Inflammation, Chronic Active	8	3.8	
Ulcer	5	4.0	
Ulcer, Multiple	2	4.0	
Skin, Control	10		
Acanthosis	9	1.6	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:53
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
DMBA 2.5/ TPA 5

ANIMAL ID	<u>*TOTALS</u>	
Inflammation, Chronic Active	8	1.5
Skin, SOA-Mass	21	
Skin, SOA-No Mass	30	
Acanthosis	30	2.8
Inflammation, Chronic Active	29	3.2
Ulcer	11	4.0
Ulcer, Multiple	8	4.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 051117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:53

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male DMBA 25/ 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	
	3	2	2	3	1	3	3	3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3
	6	4	7	0	5	0	6	1	9	1	6	2	1	6	6	6	4	4	6	2	6	6	6	6	6	6	0	6	4	
	1	5	9	9	9	9	1	9	6	3	1	9	9	2	2	2	6	3	3	5	3	3	4	4	4	5	5	9	5	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	+		+		+		+	+	+					+	+				+								+			
Acanthosis	3		3		3		3	3	3					3	3				3								3			
Alopecia				X																										
Cyst Epithelial Inclusion																													X	
Inflammation, Chronic Active	4		4		4		4	4	4					4	4				4							4				
Ulcer						4										4														

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:53

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Male DMBA 25/ 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	
	3	2	2	3	1	3	3	3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	
	6	4	7	0	5	0	6	1	9	1	6	2	1	6	6	6	4	4	6	2	6	6	6	6	6	6	0	6	4	
	1	5	9	9	9	9	1	9	6	3	1	9	9	2	2	2	6	3	3	5	3	3	4	4	4	5	5	9	5	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	
	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	

Ulcer, Multiple	4			4					4	4	4						4									4			
Skin, Control	+	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+					+		+	
Acanthosis	1	2	1	1	3	1	4		1	1	1					2		1	3	3	1	3				1		1	
Inflammation, Chronic Active	1	1	1	2	4	1	2	2	2	1	1					2		1	2	2	1	1				1		1	
Ulcer					4																								
Skin, SOA-Mass	+	+	+	+					+	+	+	+	+	+	+	+				+	+					+	+	+	+
Acanthosis																	3												
Skin, SOA-No Mass	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis	2	2	3	3	3	3	3	2	3	3	3	3	3	4	3	3	3	3	3	3	3	3	3	3	2	2	4	2	3
Alopecia																													
Hair Follicle, Cyst																													
Inflammation, Chronic Active	2	2	2	4	4	4	4	2	4	2	4	2	3	3	4	4	3	3	4	2	4	1	2	3	3	4	3	2	
Ulcer		4			4				4		4														4	4		4	
Ulcer, Multiple				4		4	4								4	4				4		4					4		

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

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

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

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

Experiment Number: 05117-02
 Test Type: INIT/PROMOT
 Route: DERMAL,SOLUTION|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: 10/23/2014
 Time Report Requested: 15:33:53
 First Dose M/F: NA / NA
 Lab: BAT

	DAY ON TEST																													
CD-1 CRL Mouse Male DMBA 25/ 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		
	3	2	2	3	1	3	3	3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	
	6	4	7	0	5	0	6	1	9	1	6	2	1	6	6	6	6	4	4	6	2	6	6	6	6	6	6	0	6	4
	1	5	9	9	9	1	9	6	3	1	9	9	2	2	2	2	6	3	3	5	3	3	4	4	4	5	5	9	5	3
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	
	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

Special Senses System

NONE

Urinary System

NONE

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

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

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

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:53
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
DMBA 25/ TPA 5

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	
Acanthosis	10	3.0
Alopecia	1	
Cyst Epithelial Inclusion	1	
Inflammation, Chronic Active	10	4.0
Ulcer	2	4.0
Ulcer, Multiple	8	4.0

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 051117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:54
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
DMBA 25/ TPA 5

	ANIMAL ID	*TOTALS	
Skin, Control		19	
Acanthosis		18	1.7
Inflammation, Chronic Active		19	1.5
Ulcer		1	4.0
Skin, SOA-Mass		22	
Acanthosis		1	3.0
Skin, SOA-No Mass		30	
Acanthosis		30	2.8
Alopecia		1	
Hair Follicle, Cyst		1	
Inflammation, Chronic Active		30	2.9
Ulcer		7	4.0
Ulcer, Multiple		8	4.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:54
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
DMBA 25/ TPA 5

ANIMAL ID

*TOTALS

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:54

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST	ANIMAL ID																													
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CD-1 CRL Mouse Male	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3		
DMBA 2.5/ BPO 20	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	2	6	6	7	2	6	6	
	1	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	4	4	4	4	4	5	5	5	5	4	2	5	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	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	
Inflammation, Chronic Active				1						1	1	1						1					1				1			
Skin, SOA-Mass					+															+								+		
Skin, SOA-No Mass	+	+	+	+	+		+	+	+	+	+	+	+		+	+	+	+	+		+	+	+	+	+		+	+	+	
Acanthosis	2	3		1	2		3	2	1	1	1	1	3	3		2	1	3	3	1		1	3	2	1	1		3	1	1
Hair Follicle, Cyst																														
Inflammation, Chronic Active	4	4	1		1		2	2	1	1	1	1	2	2		1	1	3	4	1		1	2	4	1	1		4	1	
Ulcer	4	4					4	4									4													
Ulcer, Multiple																									4				4	
Musculoskeletal System																														
NONE																														
Nervous System																														
NONE																														
Respiratory System																														
NONE																														
Special Senses System																														
NONE																														
Urinary System																														
NONE																														

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:54
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
DMBA 2.5/ BPO 20

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	5		
Acanthosis	3	3.3	
Inflammation, Chronic Active	3	3.7	
Ulcer, Multiple	2	4.0	
Skin, Control	10		
Acanthosis	7	1.1	
Inflammation, Chronic Active	7	1.0	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:54
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
DMBA 2.5/ BPO 20

ANIMAL ID	<u>*TOTALS</u>	
Skin, SOA-Mass	3	
Skin, SOA-No Mass	26	
Acanthosis	25	1.8
Hair Follicle, Cyst	1	
Inflammation, Chronic Active	24	1.9
Ulcer	5	4.0
Ulcer, Multiple	2	4.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 051117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:54

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST	ANIMAL ID																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CD-1 CRL Mouse Male	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
DMBA 25/ BPO 20	6	6	6	6	6	6	6	2	6	6	6	6	6	2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	2	2	2	2	2	2	3	6	2	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5

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

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

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:54
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
DMBA 25/ BPO 20

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		
Acanthosis	7	3.1	
Hair Follicle, Cyst	1		
Inflammation, Chronic Active	7	4.0	
Ulcer	2	4.0	
Ulcer, Multiple	5	4.0	
Skin, Control	12		

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:54
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Male
DMBA 25/ BPO 20

	ANIMAL ID	<u>*TOTALS</u>	
Acanthosis		9	1.0
Inflammation, Chronic Active		8	1.0
Skin, SOA-Mass		9	
Skin, SOA-No Mass		29	
Acanthosis		29	1.9
Inflammation, Chronic Active		28	1.9
Ulcer		2	4.0
Ulcer, Multiple		5	4.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:54
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

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:54
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

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:55

First Dose M/F: NA / NA

Lab: BAT

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

Inflammation, Chronic Active																														
Skin, SOA-No Mass																														
Acanthosis																														
Inflammation, Chronic Active																														
Ulcer																														
Ulcer, Multiple																														
Musculoskeletal System																														
NONE																														
Nervous System																														
NONE																														
Respiratory System																														
NONE																														
Special Senses System																														
NONE																														
Urinary System																														
NONE																														

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

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:55
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
VEHICLE CONTROL

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	22		
Acanthosis	2	3.0	
Inflammation, Chronic Active	2	4.0	
Metaplasia, Osseous	1	3.0	
Ulcer	2	4.0	
Skin, Control	3		
Inflammation, Chronic Active	3	1.0	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:55
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
VEHICLE CONTROL

	ANIMAL ID	*TOTALS
Skin, SOA-No Mass		9
Acanthosis		5 1.6
Inflammation, Chronic Active		9 1.4
Ulcer		1 4.0
Ulcer, Multiple		1 4.0
Musculoskeletal System		
NONE		
Nervous System		
NONE		
Respiratory System		
NONE		
Special Senses System		
NONE		
Urinary System		
NONE		

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:55
First Dose M/F: NA / NA
Lab: BAT

	DAY ON TEST																											
CD-1 CRL Mouse Female DMBA0.25/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
	3	3	3	3	3	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	6	6	6	6	6	6	6	6	6	6	6	6	0	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3	3	4	4	0	4	4	4	4	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	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

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

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

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:55

First Dose M/F: NA / NA

Lab: BAT

	DAY ON TEST																												
CD-1 CRL Mouse Female	0	0	0	0	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	2	3	3	3	3	3	3	3	3	3
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	6	6	6	6	6	6	6	6	6
DMBA0.25/ACETONE	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3	4	4	0	4	4	4	4	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
	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	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	

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

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

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

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:55
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA0.25/ACETONE

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	25		
Skin, Control	3		
Inflammation, Chronic Active	3	1.0	
Skin, SOA-No Mass	5		
Acanthosis	1	2.0	
Inflammation, Chronic Active	5	1.2	

Musculoskeletal System

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:55
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA0.25/ACETONE

ANIMAL ID

*TOTALS

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:55

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Female DMBA 2.5/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	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	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	6	6	6	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	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	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	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	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	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	
Ulcer, Multiple																																								4	
Skin, Control				+			+			+																														+	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:55

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST	ANIMAL ID																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CD-1 CRL Mouse Female	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3
DMBA 2.5/ACETONE	6	6	6	6	6	6	6	6	6	6	6	6	6	6	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	5	5	5	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	0	0	0	0	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	4	4	4	4	4	4	4	4	4	4
	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9

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

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:55
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA 2.5/ACETONE

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	19		
Acanthosis	1	3.0	
Hair Follicle, Cyst	1		
Inflammation, Chronic Active	1	4.0	
Ulcer, Multiple	1	4.0	
Skin, Control	6		
Inflammation, Chronic Active	6	1.0	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:55
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA 2.5/ACETONE

	ANIMAL ID		
		*TOTALS	
Skin, SOA-No Mass		10	
Acanthosis		3	1.7
Inflammation, Chronic Active		10	1.0
Musculoskeletal System			
NONE			
Nervous System			
NONE			
Respiratory System			
NONE			
Special Senses System			
NONE			
Urinary System			
NONE			

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:55

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST	ANIMAL ID																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CD-1 CRL Mouse Female	3	3	3	3	3	3	3	3	3	3	3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
DMBA 25/ACETONE	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	1	2	2	2	2	2	9	3	3	3	3	3	3	3	4	4	4	4	4	4	5	5	5	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	0	0	0	0	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	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	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

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:55
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA 25/ACETONE

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	24		
Skin, Control	1		
Inflammation, Chronic Active	1	1.0	
Skin, SOA-No Mass	5		
Inflammation, Chronic Active	5	1.2	

Musculoskeletal System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:56
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA 25/ACETONE

ANIMAL ID

*TOTALS

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 051117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:56
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST	ANIMAL ID																													
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CD-1 CRL Mouse Female	2	3	3	3	2	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3		
DMBA2.5/COMPLETE	9	6	6	6	8	6	6	2	4	4	6	6	6	2	6	2	6	6	6	6	6	6	7	6	6	6	2	4		
	8	1	1	1	6	1	1	1	3	5	2	2	2	3	2	0	3	3	3	3	4	4	4	4	1	5	5	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	0	0	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	4	5	5	5	5	5	5	5	5		
	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

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

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

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:56

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Female DMBA2.5/COMPLETE	DAY ON TEST																													
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	3	3	3	2	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	2	3		
	9	6	6	6	8	6	6	2	4	4	6	6	6	2	6	2	6	6	6	6	6	6	7	6	6	6	2	4		
	8	1	1	1	6	1	1	1	3	5	2	2	3	2	0	3	3	3	3	4	4	4	1	5	5	5	5	9		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	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		
	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	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		
Acanthosis	1	4	2		3	1	2		2	2	1	3	3	2	1	2		3	3	3	2	2	3	2		2	1	1		2
Inflammation, Chronic Active	2	4	2	4	4	1	1	3	2	2	1	4	2	4	1	2		1	2	4	2		2	3		2	1	1	1	4
Ulcer				4	4								4						4				4							
Ulcer, Multiple												4																		4

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 051117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:56
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA2.5/COMPLETE

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin, Control	15		
Acanthosis	7	1.1	
Inflammation, Chronic Active	14	1.1	
Skin, SOA-Mass	25		
Acanthosis	1	4.0	
Skin, SOA-No Mass	28		
Acanthosis	25	2.1	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:56
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA2.5/COMPLETE

	ANIMAL ID		
		<u>*TOTALS</u>	
Inflammation, Chronic Active		27	2.3
Ulcer		5	4.0
Ulcer, Multiple		2	4.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:56

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Female TPA 5/ COMPLETE	DAY ON TEST																													
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	3	3	3	3	3	3	3	3	3	2	2	3	2	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	6	6	6	2	6	6	6	6	6	9	9	6	7	4	6	6	6	6	6	4	6	6	6	6	6	6	6	6	6	
	1	1	1	2	1	2	2	2	2	7	7	2	4	8	3	3	2	3	3	4	4	4	4	4	5	5	5	5	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	0	0	0	0	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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
Acanthosis	3		2	2	2	2	1			2	2	2	1	2	1		1	2	3		1	1	1		1			2	1	
Inflammation, Chronic Active	2		2	2	2	2	1	2	2	2	2	2	2	1	1	1	2	2		2	2	1	1		1	1	1	2	2	
Skin, SOA-Mass			+	+				+	+						+	+										+				
Acanthosis																													2	
Skin, SOA-No Mass	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acanthosis	3	2	3	3	3	3	2	2	2	2	2	1	3	3	2	2	2	3	4	2	2	2	2	2	3	3	1	3	4	2
Inflammation, Chronic Active	4	2	2	3	2	4	2	2	2	3	4	2	4	4	2	2	3	3	4	2		2	2	2	2	2	1	2	4	2
Ulcer											4		4					4	4											
Ulcer, Multiple	4			4		4							4						4											
Musculoskeletal System																														
NONE																														
Nervous System																														
NONE																														
Respiratory System																														
NONE																														
Special Senses System																														
NONE																														
Urinary System																														
NONE																														

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

Experiment Number: 051117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:56
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
TPA 5/ COMPLETE

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	8		
Acanthosis	7	2.6	
Inflammation, Chronic Active	7	4.0	
Ulcer	2	4.0	
Ulcer, Multiple	6	4.0	
Skin, Control	26		
Acanthosis	21	1.7	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 051117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:56
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
TPA 5/ COMPLETE

ANIMAL ID	*TOTALS	
Inflammation, Chronic Active	26	1.7
Skin, SOA-Mass	7	
Acanthosis	1	2.0
Skin, SOA-No Mass	30	
Acanthosis	30	2.4
Inflammation, Chronic Active	29	2.6
Ulcer	4	4.0
Ulcer, Multiple	5	4.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:56

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST	ANIMAL ID																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
BPO 20/ COMPLETE	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	5	5	5	5	5	5	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	0	0	0	0	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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
Inflammation, Chronic Active	2	1	1	2	1	1	1	1	1	2	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
Skin, SOA-No Mass	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis	2	2	1	2	2	2	2	1	1	1	1	1	2	2	1	2	1	1	1	1	2	1	1	1	1	1	1	3	1
Inflammation, Chronic Active	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	1	2	1	2	2	1	2	1	2	1	2	1	4	1
Ulcer, Multiple																													4
Musculoskeletal System																													
NONE																													
Nervous System																													
NONE																													
Respiratory System																													
NONE																													
Special Senses System																													
NONE																													
Urinary System																													
NONE																													

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:56
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
BPO 20/ COMPLETE

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	1		
Acanthosis	1	3.0	
Inflammation, Chronic Active	1	4.0	
Ulcer	1	4.0	
Skin, Control	30		
Acanthosis	20	1.2	
Inflammation, Chronic Active	30	1.3	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:56
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
BPO 20/ COMPLETE

	ANIMAL ID	<u>*TOTALS</u>	
Skin, SOA-No Mass		30	
Acanthosis		30	1.4
Inflammation, Chronic Active		30	1.8
Ulcer, Multiple		1	4.0
Musculoskeletal System			
NONE			
Nervous System			
NONE			
Respiratory System			
NONE			
Special Senses System			
NONE			
Urinary System			
NONE			

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
 Test Type: INIT/PROMOT
 Route: DERMAL,SOLUTION|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: 10/23/2014
 Time Report Requested: 15:33:57
 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	0	0	0
CD-1 CRL Mouse Female	2	3	3	3	2	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3		
DMBA0.25/ TPA 5	7	6	6	6	6	6	9	6	6	6	6	6	6	1	2	6	6	6	6	6	6	6	4	2	6	6	6	6	4	3	3		
ANIMAL ID	4	1	1	1	7	1	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	5	5	3	1	5	5	5	3	3			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6		
	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	0		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0			

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

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

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:57

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Female DMBA0.25/ 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			
ANIMAL ID	2	3	3	3	2	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3				
	7	6	6	6	6	6	9	6	6	6	6	6	6	1	2	6	6	6	6	6	6	6	4	2	6	6	6	4				
	4	1	1	1	7	1	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	5	5	3	1	5	5	3				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6				
	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	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				
Acanthosis	1	2		1	3	3	1		2	3		1	2	3		1							3		2		1	2	1	3		
Inflammation, Chronic Active	1	2		1	2	2	1		1	2		1	2	2		1						2	1	1		1	1	2		2	1	2
Skin, SOA-Mass			+					+	+	+		+	+			+	+	+	+			+	+	+	+	+	+	+		+	+	
Skin, SOA-No Mass	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acanthosis	3	2	3	3	3	3	3	3	4	3	2	1	3	3	1	3	3	1	2	2	3	2	3	2	2		3	2	2	3		
Inflammation, Chronic Active	4	2	2	4	4	2	2	2	3	2	2	1	2	3	1	2	2	1	2	2	2	2	2	2	2		4	2	2	4		
Ulcer, Multiple				4	4				4																		4			4		
Musculoskeletal System																																
NONE																																
Nervous System																																
NONE																																
Respiratory System																																
NONE																																
Special Senses System																																
NONE																																
Urinary System																																
NONE																																

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 051117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:57
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA0.25/ TPA 5

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	5		
Acanthosis	4	3.0	
Alopecia	1		
Inflammation, Chronic Active	5	3.8	
Ulcer	2	4.0	
Skin, Control	22		
Acanthosis	19	1.9	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:57
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA0.25/ TPA 5

ANIMAL ID	<u>*TOTALS</u>	
Inflammation, Chronic Active	21	1.5
Skin, SOA-Mass	18	
Skin, SOA-No Mass	29	
Acanthosis	29	2.5
Inflammation, Chronic Active	29	2.3
Ulcer, Multiple	5	4.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 051117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:57

First Dose M/F: NA / NA

Lab: BAT

CD-1 CRL Mouse Female DMBA 2.5/ 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	
ANIMAL ID	3	3	2	3	3	3	1	3	3	3	3	2	3	2	2	3	3	3	3	3	3	3	3	3	3	2	3	3	2	
	6	6	8	6	6	6	7	6	6	6	6	0	2	7	6	6	6	6	6	6	6	6	6	6	0	6	6	4	9	
	1	1	5	1	1	2	7	2	2	2	3	5	9	4	3	3	3	3	4	4	4	4	2	5	5	1	6	5	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	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	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	
Acanthosis	1	3	2	3	2	2		1	2		2			2	3		2		1	3		2	1		2	2	1	2	2	
Inflammation, Chronic Active	2	3	2	2	2	1	1	1	2		2	1			4	2		2		1	2	1	3	1	1	2	4	1	1	3
Ulcer														4																
Skin, SOA-Mass	+	+	+	+	+	+	+	+	+	+	+			+		+	+		+	+		+			+			+	+	
Skin, SOA-No Mass	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis	1	3	3	3	3	3	3	3	2	3	3	2	3	3	1	3	4	3	4	3	3	1	3	4	2	2	2	2	3	3
Inflammation, Chronic Active	1	4	2	2	3	3	4	3	2	2	4	3	4	4	1	3	4	3	4	3	4	2	2	4	2	2	2	2	2	3
Ulcer			4													4					4									
Ulcer, Multiple											4		4	4					4					4						
Musculoskeletal System																														
NONE																														
Nervous System																														
NONE																														
Respiratory System																														
NONE																														
Special Senses System																														
NONE																														
Urinary System																														
NONE																														

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

Experiment Number: 051117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:57
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA 2.5/ TPA 5

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	4	3.0
Inflammation, Chronic Active	4	3.8
Ulcer	1	4.0
Ulcer, Multiple	2	4.0
Skin, Control	25	
Acanthosis	21	2.0

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 051117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:57
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA 2.5/ TPA 5

ANIMAL ID	*TOTALS	
Inflammation, Chronic Active	25	1.9
Ulcer	1	4.0
Skin, SOA-Mass	20	
Skin, SOA-No Mass	30	
Acanthosis	30	2.7
Inflammation, Chronic Active	30	2.8
Ulcer	3	4.0
Ulcer, Multiple	5	4.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 051117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:57

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
CD-1 CRL Mouse Female	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	3	3	3	2	3	2	3	3	3
DMBA 25/ TPA 5	8	6	2	6	6	6	6	6	6	2	1	0	4	1	6	6	5	6	4	0	7	6	6	6	7	6	7	6
ANIMAL ID	8	1	3	1	1	2	2	2	3	3	8	7	3	5	3	3	4	4	9	4	4	5	5	9	5	4	5	9
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin																													
Acanthosis													+		+														+
Alopecia																													
Inflammation, Chronic Active																													
Ulcer																													
Skin, Control		+		+					+	+	+			+	+	+	+	+			+	+	+		+	+	+		+

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

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:57

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST	ANIMAL ID																													
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CD-1 CRL Mouse Female	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	3	3	3	2	3	2	3	3	3
DMBA 25/ TPA 5	8	6	2	6	6	6	6	6	6	2	1	0	4	1	6	6	5	6	4	0	7	6	6	6	7	6	7	6	6	2
	8	1	3	1	1	2	2	2	3	3	8	7	3	5	3	3	4	4	9	4	1	4	5	5	9	5	4	5	5	9
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	3	3	3	3	3	3	3	3	3	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	1							3	3	2					1	3	1		1		2	3	2		1	1	1		2	2
Inflammation, Chronic Active	1		1					2	2	2		1			1	2	1	1	2		2	1	2		1	1	3		2	1
Skin, SOA-Mass	+	+	+	+	+	+	+	+	+		+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis												2																		
Skin, SOA-No Mass	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acanthosis	3	3	3	4	4	4	3	3	3	3	3	1	3	3	2	3	2	1	2	3	2	3	2	4	3	3	2	4	3	3
Hair Follicle, Cyst											X																			
Inflammation, Chronic Active	4	2	3	4	4	4	4	2	4	3	3	4	4	2	2	4	2	1	2	4	2	4	2	3	3	3	3	4	4	4
Ulcer				4																4					4					4
Ulcer, Multiple	4				4	4	4		4		4		4		4						4							4	4	

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 051117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:57
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA 25/ TPA 5

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	4	2.3	
Alopecia	1		
Inflammation, Chronic Active	4	3.3	
Ulcer	2	4.0	
Skin, Control	19		
Acanthosis	16	1.8	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:58
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA 25/ TPA 5

ANIMAL ID	*TOTALS	
Inflammation, Chronic Active	19	1.5
Skin, SOA-Mass	28	
Acanthosis	1	2.0
Skin, SOA-No Mass	30	
Acanthosis	30	2.8
Hair Follicle, Cyst	1	
Inflammation, Chronic Active	30	3.1
Ulcer	4	4.0
Ulcer, Multiple	11	4.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 051117-02
 Test Type: INIT/PROMOT
 Route: DERMAL,SOLUTION|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: 10/23/2014
 Time Report Requested: 15:33:58
 First Dose M/F: NA / NA
 Lab: BAT

CD-1 CRL Mouse Female DMBA 2.5/ BPO 20	DAY ON TEST																													
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	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	2	3	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	1	1	1	1	1	1	2	2	2	2	6	2	3	3	3	3	3	3	4	4	4	4	5	5	5	5	5	7	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	6	6	6	6	6	6	6	6	6	6	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																												+	
Acanthosis																												3	
Inflammation, Chronic Active																												4	
Ulcer, Multiple																												4	
Skin, Control	+	+	+	+	+		+	+			+	+	+			+	+	+			+	+	+	+					+
Acanthosis			1	1			1	1			1	1			1	1	1			1	1			1	1				

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

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

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

Experiment Number: 05117-02
 Test Type: INIT/PROMOT
 Route: DERMAL,SOLUTION|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: 10/23/2014
 Time Report Requested: 15:33:58
 First Dose M/F: NA / NA
 Lab: BAT

CD-1 CRL Mouse Female DMBA 2.5/ BPO 20	DAY ON TEST																														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	3	3	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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
	1	1	1	1	1	1	2	2	2	2	6	2	3	3	3	3	3	3	4	4	4	4	5	5	5	5	5	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	6	6	6	6	6	6	6	6	6	6	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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Inflammation, Chronic Active	1	1	2	1	1					1			1	1	1		1	1	1				1	1	1	1		1			
Skin, SOA-Mass																															
Skin, SOA-No Mass																															
Acanthosis	2	2	1	2	1	3	1	1	2	4	2	2	2	1	2	1	1	1	1	1	1	1	4	1	1	1	1	1	1	3	1
Inflammation, Chronic Active	2	4	1	2	1	4	1	1	2	2	2	2	2	1	2	1	1	1	1	1	1	3	1	1	1	1	1	1	3	1	
Ulcer		4																													
Ulcer, Multiple								4															4								
Musculoskeletal System																															
NONE																															
Nervous System																															
NONE																															
Respiratory System																															
NONE																															
Special Senses System																															
NONE																															
Urinary System																															
NONE																															

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

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:58
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA 2.5/ BPO 20

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	1		
Acanthosis	1	3.0	
Inflammation, Chronic Active	1	4.0	
Ulcer, Multiple	1	4.0	
Skin, Control	19		
Acanthosis	11	1.0	
Inflammation, Chronic Active	18	1.1	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:58
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA 2.5/ BPO 20

ANIMAL ID	<u>*TOTALS</u>	
Skin, SOA-Mass	5	
Skin, SOA-No Mass	30	
Acanthosis	30	1.6
Inflammation, Chronic Active	30	1.6
Ulcer	1	4.0
Ulcer, Multiple	2	4.0

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02

Test Type: INIT/PROMOT

Route: DERMAL,SOLUTION|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: 10/23/2014

Time Report Requested: 15:33:58

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST	ANIMAL ID																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
DMBA 25/ BPO 20	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	1	2	3	4	5	6	7	8
Acanthosis	1	2	2	2	2	2	1	2	1	2	2	4	1	1	2	1	1	1	1										
Inflammation, Chronic Active	1	2	2	2	2	2	1	2	1	2	2	3	1	1	2	1	1	1	1										

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 051117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:58
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA 25/ BPO 20

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	1		
Skin, Control	20		
Acanthosis	19	1.0	
Inflammation, Chronic Active	19	1.0	
Skin, SOA-Mass	6		
Skin, SOA-No Mass	28		
Acanthosis	28	1.4	

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:58
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

CD-1 CRL Mouse Female
DMBA 25/ BPO 20

ANIMAL ID

*TOTALS

Inflammation, Chronic Active 28 1.4

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:58
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

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05117-02
Test Type: INIT/PROMOT
Route: DERMAL,SOLUTION|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: 10/23/2014
Time Report Requested: 15:33:58
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 ****

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked