

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>C Number:</b>	C61994C
<b>Lock Date:</b>	04/09/1992
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	04/29/1994

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 1

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610741

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 363
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8610742

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 3

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610743

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 4	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 363
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8610744

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

---

PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 051117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 5

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610745

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 6

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610746

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 7	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 363
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8610747

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 8	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 363
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8610748

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 9	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 363
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8610749

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610750

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 11

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610751

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 12

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610752

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 13

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610753

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 14

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610754

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 15

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610755

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 16

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610756

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 17

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610757

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 18

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 65

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** 8610758

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

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Animal Note: MORIBUND SAC DUE TO UNDETERMINED CAUSE

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 19

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610759

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 20

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610760

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**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 21

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610761

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 22

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610762

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 23

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610763

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 24

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610764

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 25

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610765

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 26

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610766

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 27

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610767

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 28

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610768

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 29

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610769

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 30

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610770

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 31

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** DMBA0.25 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8610981

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 32

TRT#: 3

SEX: Male

DAY ON TEST: 363

DOSE: DMBA0.25 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8610982

OBSERVATIONS

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

Control

Inflammation

Chronic Active, Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Papilloma

SOA-Mass

Squamous Cell Papilloma

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 33

TRT#: 3

SEX: Male

DAY ON TEST: 253

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610983

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 051117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 34

TRT#: 3

SEX: Male

DAY ON TEST: 324

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610984

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Marked
Control	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	
Control	Ulcer	Marked
Control	Ulcer	Marked

Note: TGL#4:MASS,CONTROL SKIN,NOTED AT NECROPSY,IS LARGE

Note: SUBCUTANEOUS ABSCESS HISTOPATHOLOGICALLY.

Note: TGL#4:MASS,CONTROL SKIN,NOTED AT NECROPSY,IS LARGE

Note: SUBCUTANEOUS ABSCESS HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 4-3 ]

[ Inflammation TGLS = 4-3 ]

[ Inflammation TGLS = 4-3 ]

[ Inflammation TGLS = 4-3 ]

[ Squamous Cell Carcinoma TGLS = 3-5 ]

[ Squamous Cell Carcinoma TGLS = 3-5 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

[ Ulcer TGLS = 5-3 ]

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 34

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 324

**DOSE:** DMBA0.25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610984

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**OBSERVATIONS**

[ Ulcer TGLS = 5-3 ]

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PRIMARY CAUSE OF DEATH -

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Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 35

TRT#: 3

SEX: Male

DAY ON TEST: 363

DOSE: DMBA0.25 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8610985

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 051117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 36

TRT#: 3

SEX: Male

DAY ON TEST: 287

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610986

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
	Acanthosis	Marked
	Acanthosis	Marked
Control	Inflammation	Chronic Active, Marked
Control	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
Control	Ulcer	Marked
Control	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
	Ulcer	Multiple, Marked
	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 4-5,1,2-2+3,3-4 ]

[ Acanthosis TGLS = 4-5,1,2-2+3,3-4 ]

[ Acanthosis TGLS = 4-5,1,2-2+3,3-4 ]

[ Acanthosis TGLS = 4-5,1,2-2+3,3-4 ]

[ Acanthosis TGLS = 4-5,1,2-2+3,3-4 ]

[ Acanthosis TGLS = 4-5,1,2-2+3,3-4 ]

[ Inflammation TGLS = 4-5,1-3,3-4 ]

[ Inflammation TGLS = 4-5,1-3,3-4 ]

[ Inflammation TGLS = 4-5,1-3,3-4 ]

[ Inflammation TGLS = 4-5,1-3,3-4 ]

[ Inflammation TGLS = 4-5,1-3,3-4 ]

[ Inflammation TGLS = 4-5,1-3,3-4 ]

[ Ulcer TGLS = 4-5,1-3,3-4 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 36

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 287

**DOSE:** DMBA0.25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610986

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**OBSERVATIONS**

[ Ulcer TGLS = 4-5,1-3,3-4 ]

[ Ulcer TGLS = 4-5,1-3,3-4 ]

[ Ulcer TGLS = 4-5,1-3,3-4 ]

[ Ulcer TGLS = 4-5,1-3,3-4 ]

[ Ulcer TGLS = 4-5,1-3,3-4 ]

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**PRIMARY CAUSE OF DEATH**

-

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Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 37

TRT#: 3

SEX: Male

DAY ON TEST: 77

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610987

OBSERVATIONS

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

Acanthosis

Moderate

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

Ulcer

Marked

Ulcer

Marked

[ Acanthosis TGLS = 1-3,2-2 ]

[ Acanthosis TGLS = 1-3,2-2 ]

[ Acanthosis TGLS = 1-3,2-2 ]

[ Acanthosis TGLS = 1-3,2-2 ]

[ Inflammation TGLS = 2-2,1-3 ]

[ Inflammation TGLS = 2-2,1-3 ]

[ Inflammation TGLS = 2-2,1-3 ]

[ Inflammation TGLS = 2-2,1-3 ]

[ Ulcer TGLS = 2-2,1-3 ]

[ Ulcer TGLS = 2-2,1-3 ]

[ Ulcer TGLS = 2-2,1-3 ]

[ Ulcer TGLS = 2-2,1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 051117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:39

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 38

TRT#: 3

SEX: Male

DAY ON TEST: 244

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610988

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Ulcer TGLS = 2-3 ]

[ Ulcer TGLS = 2-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 39

TRT#: 3

SEX: Male

DAY ON TEST: 162

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610989

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2,3-2+3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 40

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** DMBA0.25 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8610990

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**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 41

TRT#: 3

SEX: Male

DAY ON TEST: 288

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610991

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 42

TRT#: 3

SEX: Male

DAY ON TEST: 363

DOSE: DMBA0.25 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8610992

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	

Note: LOGICALLY.

Note: TGL#2:SKIN MASS,NOTED AT TRIM,IS FOCUS OF MODERATELY

Note: ACANTHOTIC EPIDERMIS COVERED WITH A SCAB HISTOPATHO-

Note: TGL#2:SKIN MASS,NOTED AT TRIM,IS FOCUS OF MODERATELY

Note: ACANTHOTIC EPIDERMIS COVERED WITH A SCAB HISTOPATHO-

Note: LOGICALLY.

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 051117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 43

TRT#: 3

SEX: Male

DAY ON TEST: 80

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610993

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
	Acanthosis	Mild
	Acanthosis	Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked
	Ulcer	Marked
	Ulcer	Marked

[ Acanthosis TGLS = 2,4-2+3,3-4 ]

[ Acanthosis TGLS = 2,4-2+3,3-4 ]

[ Acanthosis TGLS = 2,4-2+3,3-4 ]

[ Acanthosis TGLS = 2,4-2+3,3-4 ]

[ Acanthosis TGLS = 2,4-2+3,3-4 ]

[ Acanthosis TGLS = 2,4-2+3,3-4 ]

[ Inflammation TGLS = 2,4-2+3,3-4 ]

[ Inflammation TGLS = 2,4-2+3,3-4 ]

[ Inflammation TGLS = 2,4-2+3,3-4 ]

[ Inflammation TGLS = 2,4-2+3,3-4 ]

[ Ulcer TGLS = 2,4-2+3,3-4 ]

[ Ulcer TGLS = 2,4-2+3,3-4 ]

[ Ulcer TGLS = 2,4-2+3,3-4 ]

[ Ulcer TGLS = 2,4-2+3,3-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 051117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 44

TRT#: 3

SEX: Male

DAY ON TEST: 127

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610994

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
	Acanthosis	Moderate
	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked
	Ulcer	Multiple, Marked
	Ulcer	Multiple, Marked

Note: WITH A SCAB,AND A SUBCUTANEOUS ABSCESS.

Note: TGL#1:SKIN MASS,NOTED AT NECROPSY,IS FOCUS OF

Note: WITH A SCAB,AND A SUBCUTANEOUS ABSCESS.

Note: SEVERELY INFLAMMED AND ULCERATED EPIDERMIS COVERED

Note: TGL#1:SKIN MASS,NOTED AT NECROPSY,IS FOCUS OF

Note: SEVERELY INFLAMMED AND ULCERATED EPIDERMIS COVERED

[ Acanthosis TGLS = 1,4-2+3,2,3-4+5 ]

[ Acanthosis TGLS = 1,4-2+3,2,3-4+5 ]

[ Acanthosis TGLS = 1,4-2+3,2,3-4+5 ]

[ Acanthosis TGLS = 1,4-2+3,2,3-4+5 ]

[ Acanthosis TGLS = 1,4-2+3,2,3-4+5 ]

[ Acanthosis TGLS = 1,4-2+3,2,3-4+5 ]

[ Inflammation TGLS = 1,4-2+3,2,3-4+5 ]

[ Inflammation TGLS = 1,4-2+3,2,3-4+5 ]

[ Inflammation TGLS = 1,4-2+3,2,3-4+5 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 44

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 127

**DOSE:** DMBA0.25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610994

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**OBSERVATIONS**

[ Inflammation TGLS = 1,4-2+3,2,3-4+5 ]

[ Ulcer TGLS = 1,4-2+3,2,3-4+5 ]

[ Ulcer TGLS = 1,4-2+3,2,3-4+5 ]

[ Ulcer TGLS = 1,4-2+3,2,3-4+5 ]

[ Ulcer TGLS = 1,4-2+3,2,3-4+5 ]

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**PRIMARY CAUSE OF DEATH**

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Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 45	<b>TRT#:</b> 3 <b>DOSE:</b> DMBA0.25 /TPA 1	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 127 <b>HISTO:</b> 8610995
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OBSERVATIONS

* Skin	SOA-No Mass	Acanthosis	Mild
	SOA-No Mass	Acanthosis	Mild
		Acanthosis	Mild
		Acanthosis	Mild
	SOA-No Mass	Inflammation	Chronic Active, Marked
	SOA-No Mass	Inflammation	Chronic Active, Marked
		Inflammation	Chronic Active, Marked
		Inflammation	Chronic Active, Marked
	SOA-No Mass	Ulcer	Multiple, Marked
	SOA-No Mass	Ulcer	Multiple, Marked
		Ulcer	Multiple, Marked
		Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2-2+3,3-4+5 ]  
 [ Acanthosis TGLS = 1,2-2+3,3-4+5 ]  
 [ Acanthosis TGLS = 1,2-2+3,3-4+5 ]  
 [ Acanthosis TGLS = 1,2-2+3,3-4+5 ]  
 [ Inflammation TGLS = 1,2-2+3,3-4+5 ]  
 [ Inflammation TGLS = 1,2-2+3,3-4+5 ]  
 [ Inflammation TGLS = 1,2-2+3,3-4+5 ]  
 [ Inflammation TGLS = 1,2-2+3,3-4+5 ]  
 [ Ulcer TGLS = 3-4+5,1,2-2+3 ]  
 [ Ulcer TGLS = 3-4+5,1,2-2+3 ]  
 [ Ulcer TGLS = 3-4+5,1,2-2+3 ]  
 [ Ulcer TGLS = 3-4+5,1,2-2+3 ]

PRIMARY CAUSE OF DEATH -  
 Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.  
 Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 46

TRT#: 3

SEX: Male

DAY ON TEST: 297

DOSE: DMBA0.25 /TPA 1

DISP: Natural Death

HISTO: 8610996

OBSERVATIONS

\* Skin

Control

Acanthosis

Minimal

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:39

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 47

TRT#: 3

SEX: Male

DAY ON TEST: 286

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610997

OBSERVATIONS

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

Note: TGL#3:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF MOD-

Note: ERATELY ACANTHOTIC EPIDERMIS CONTAINING SEVERAL

Note: FOLLICULAR CYSTS.

Note: ERATELY ACANTHOTIC EPIDERMIS CONTAINING SEVERAL

Note: FOLLICULAR CYSTS.

Note: TGL#3:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF MOD-

[ Acanthosis TGLS = 3,4-2+3 ]

[ Acanthosis TGLS = 3,4-2+3 ]

[ Cyst TGLS = 3-3 ]

[ Cyst TGLS = 3-3 ]

[ Inflammation TGLS = 3,4-2+3 ]

[ Inflammation TGLS = 3,4-2+3 ]

[ Squamous Cell Carcinoma TGLS = 1,2-4+5 ]

[ Squamous Cell Carcinoma TGLS = 1,2-4+5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 48	<b>TRT#:</b> 3 <b>DOSE:</b> DMBA0.25 /TPA 1	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 323 <b>HISTO:</b> 8610998
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OBSERVATIONS

* Skin	SOA-No Mass	Acanthosis	Mild
	SOA-No Mass	Acanthosis	Mild
		Acanthosis	Moderate
		Acanthosis	Moderate
	SOA-No Mass	Inflammation	Chronic Active, Minimal
	SOA-No Mass	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Marked
		Inflammation	Chronic Active, Marked
	SOA-Mass	Keratoacanthoma	
	SOA-Mass	Keratoacanthoma	
	SOA-Mass	Squamous Cell Carcinoma	Multiple
	SOA-Mass	Squamous Cell Carcinoma	Multiple
		Ulcer	Marked
		Ulcer	Marked

[ Acanthosis TGLS = 1-2,2-3 ]

[ Acanthosis TGLS = 1-2,2-3 ]

[ Acanthosis TGLS = 1-2,2-3 ]

[ Acanthosis TGLS = 1-2,2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Keratoacanthoma TGLS = 4-6 ]

[ Keratoacanthoma TGLS = 4-6 ]

[ Squamous Cell Carcinoma TGLS = 3,5-4+5 ]

[ Squamous Cell Carcinoma TGLS = 3,5-4+5 ]

[ Ulcer TGLS = 2-3 ]

[ Ulcer TGLS = 2-3 ]

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 49

TRT#: 3

SEX: Male

DAY ON TEST: 129

DOSE: DMBA0.25 /TPA 1

DISP: Natural Death

HISTO: 8610999

OBSERVATIONS

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 1,2-3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 50

TRT#: 3

SEX: Male

DAY ON TEST: 79

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611000

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 175

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611001

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2,3-2+3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 289

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611002

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 162

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611003

OBSERVATIONS

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2,3-2+3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 127

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611004

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 240

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611005

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN MASS.

Animal Note: CAUSE OF MORBIDITY:SKIN MASS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 169

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611006

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 171

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611007

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:39

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 197

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611008

OBSERVATIONS

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 363

DOSE: DMBA0.25 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611009

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

[ Ulcer TGLS = 2-2 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 127

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611010

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 1,2-3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 61

TRT#: 5

SEX: Male

DAY ON TEST: 324

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610921

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
Control	Inflammation	Chronic Active, Marked
Control	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple
Control	Ulcer	Marked
Control	Ulcer	Marked

[ Acanthosis TGLS = 3-1,4-2 ]

[ Acanthosis TGLS = 3-1,4-2 ]

[ Acanthosis TGLS = 3-1,4-2 ]

[ Acanthosis TGLS = 3-1,4-2 ]

[ Inflammation TGLS = 3-1 ]

[ Inflammation TGLS = 3-1 ]

[ Inflammation TGLS = 3-1 ]

[ Inflammation TGLS = 3-1 ]

[ Squamous Cell Papilloma TGLS = 1,2-3+4 ]

[ Squamous Cell Papilloma TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 3-1 ]

[ Ulcer TGLS = 3-1 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 62

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** DMBA 2.5 /TPA 1

**DISP:** Natural Death

**HISTO:** 8610922

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

---

**PRIMARY CAUSE OF DEATH**

-

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Animal Note: CAUSE OF DEATH:UNDETERMINED.

Animal Note: CAUSE OF DEATH:UNDETERMINED.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 63

TRT#: 5

SEX: Male

DAY ON TEST: 162

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610923

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
	Acanthosis	Marked
	Acanthosis	Marked
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
	Ulcer	Multiple, Marked
	Ulcer	Multiple, Marked

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN DEFORMITY,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN DEFORMITY,NOTED AT NECROPSY,IS SQUAMOUS CELL

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-4 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 63

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** DMBA 2.5 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610923

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**OBSERVATIONS**

[ Ulcer TGLS = 2-4 ]

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PRIMARY CAUSE OF DEATH

-

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Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 64

TRT#: 5

SEX: Male

DAY ON TEST: 324

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610924

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 65

TRT#: 5

SEX: Male

DAY ON TEST: 91

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610925

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Inflammation TGLS = 3-2 ]

[ Inflammation TGLS = 3-2 ]

[ Ulcer TGLS = 3-2 ]

[ Ulcer TGLS = 3-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:PROLAPSE OF URINARY BLADDER.

Animal Note: CAUSE OF MORBIDITY:PROLAPSE OF URINARY BLADDER.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 66

TRT#: 5

SEX: Male

DAY ON TEST: 162

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610926

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2,3,4-2+3+4+5 ]

[ Acanthosis TGLS = 1,2,3,4-2+3+4+5 ]

[ Acanthosis TGLS = 1,2,3,4-2+3+4+5 ]

[ Acanthosis TGLS = 1,2,3,4-2+3+4+5 ]

[ Inflammation TGLS = 2,3,4-3+4+5 ]

[ Inflammation TGLS = 2,3,4-3+4+5 ]

[ Inflammation TGLS = 2,3,4-3+4+5 ]

[ Inflammation TGLS = 2,3,4-3+4+5 ]

[ Ulcer TGLS = 2,3,4-3+4+5 ]

[ Ulcer TGLS = 2,3,4-3+4+5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 67

TRT#: 5

SEX: Male

DAY ON TEST: 202

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610927

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

- [ Acanthosis TGLS = 1,4-2+3 ]
- [ Acanthosis TGLS = 1,4-2+3 ]
- [ Acanthosis TGLS = 1,4-2+3 ]
- [ Acanthosis TGLS = 1,4-2+3 ]
- [ Inflammation TGLS = 1,4-2+3 ]
- [ Inflammation TGLS = 1,4-2+3 ]
- [ Inflammation TGLS = 1,4-2+3 ]
- [ Inflammation TGLS = 1,4-2+3 ]
- [ Squamous Cell Papilloma TGLS = 2,3-4+5 ]
- [ Squamous Cell Papilloma TGLS = 2,3-4+5 ]
- [ Ulcer TGLS = 1,4-2+3 ]
- [ Ulcer TGLS = 1,4-2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 68

TRT#: 5

SEX: Male

DAY ON TEST: 363

DOSE: DMBA 2.5 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8610928

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

[ Ulcer TGLS = 2-2 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 69

TRT#: 5

SEX: Male

DAY ON TEST: 199

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610929

OBSERVATIONS

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

Note: TGL#2:SKIN MASS,NOTED AT NECROPSY,IS A FOCUS OF

Note: HISTOPATHOLOGICALLY.

Note: HISTOPATHOLOGICALLY.

Note: MODERATELY ACANTHOTIC EPIDERMIS COVERED WITH A SCAB

Note: MODERATELY ACANTHOTIC EPIDERMIS COVERED WITH A SCAB

Note: TGL#2:SKIN MASS,NOTED AT NECROPSY,IS A FOCUS OF

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 70

TRT#: 5

SEX: Male

DAY ON TEST: 244

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610930

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
	Acanthosis	Marked
	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
	Ulcer	Marked
	Ulcer	Marked

[ Acanthosis TGLS = 2-2,1-3 ]

[ Acanthosis TGLS = 2-2,1-3 ]

[ Acanthosis TGLS = 2-2,1-3 ]

[ Acanthosis TGLS = 2-2,1-3 ]

[ Acanthosis TGLS = 2-2,1-3 ]

[ Acanthosis TGLS = 2-2,1-3 ]

[ Inflammation TGLS = 2-2,1-3 ]

[ Inflammation TGLS = 2-2,1-3 ]

[ Inflammation TGLS = 2-2,1-3 ]

[ Inflammation TGLS = 2-2,1-3 ]

[ Inflammation TGLS = 2-2,1-3 ]

[ Inflammation TGLS = 2-2,1-3 ]

[ Ulcer TGLS = 2-2,1-3 ]

[ Ulcer TGLS = 2-2,1-3 ]

[ Ulcer TGLS = 2-2,1-3 ]

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 70

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 244

**DOSE:** DMBA 2.5 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610930

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**OBSERVATIONS**

[ Ulcer TGLS = 2-2,1-3 ]

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PRIMARY CAUSE OF DEATH

-

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Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 71

TRT#: 5

SEX: Male

DAY ON TEST: 167

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610931

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 72

TRT#: 5

SEX: Male

DAY ON TEST: 172

DOSE: DMBA 2.5 /TPA 1

DISP: Natural Death

HISTO: 8610932

OBSERVATIONS

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,4,5-2+3+6 ]

[ Acanthosis TGLS = 1,4,5-2+3+6 ]

[ Inflammation TGLS = 1,4,5-2+3+6 ]

[ Inflammation TGLS = 1,4,5-2+3+6 ]

[ Squamous Cell Papilloma TGLS = 2,3-4+5 ]

[ Squamous Cell Papilloma TGLS = 2,3-4+5 ]

[ Ulcer TGLS = 1,4,5-2+3+6 ]

[ Ulcer TGLS = 1,4,5-2+3+6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 73

TRT#: 5

SEX: Male

DAY ON TEST: 91

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610933

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 74

TRT#: 5

SEX: Male

DAY ON TEST: 113

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610934

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

- [ Acanthosis TGLS = 1,2,3-2+3+4 ]
- [ Acanthosis TGLS = 1,2,3-2+3+4 ]
- [ Acanthosis TGLS = 1,2,3-2+3+4 ]
- [ Acanthosis TGLS = 1,2,3-2+3+4 ]
- [ Inflammation TGLS = 1,2,3-2+3+4 ]
- [ Inflammation TGLS = 1,2,3-2+3+4 ]
- [ Inflammation TGLS = 1,2,3-2+3+4 ]
- [ Inflammation TGLS = 1,2,3-2+3+4 ]
- [ Ulcer TGLS = 1,2,3-2+3+4 ]
- [ Ulcer TGLS = 1,2,3-2+3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 75

TRT#: 5

SEX: Male

DAY ON TEST: 199

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610935

OBSERVATIONS

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:39

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 76

TRT#: 5

SEX: Male

DAY ON TEST: 287

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610936

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

[ Ulcer TGLS = 2-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 77

TRT#: 5

SEX: Male

DAY ON TEST: 233

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610937

OBSERVATIONS

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Acanthosis

Moderate

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

Inflammation

Chronic Active, Marked

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

SOA-Mass

Squamous Cell Papilloma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

Ulcer

Multiple, Marked

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 2-6,3,4-2+4 ]

[ Acanthosis TGLS = 2-6,3,4-2+4 ]

[ Acanthosis TGLS = 2-6,3,4-2+4 ]

[ Acanthosis TGLS = 2-6,3,4-2+4 ]

[ Inflammation TGLS = 2-6,3,4-2+4 ]

[ Inflammation TGLS = 2-6,3,4-2+4 ]

[ Inflammation TGLS = 2-6,3,4-2+4 ]

[ Inflammation TGLS = 2-6,3,4-2+4 ]

[ Squamous Cell Carcinoma TGLS = 1-5 ]

[ Squamous Cell Carcinoma TGLS = 1-5 ]

[ Squamous Cell Papilloma TGLS = 5-3 ]

[ Squamous Cell Papilloma TGLS = 5-3 ]

[ Ulcer TGLS = 2-6,3,4-2+4 ]

[ Ulcer TGLS = 2-6,3,4-2+4 ]

[ Ulcer TGLS = 2-6,3,4-2+4 ]

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 77

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 233

**DOSE:** DMBA 2.5 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610937

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**OBSERVATIONS**

[ Ulcer TGLS = 2-6,3,4-2+4 ]

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PRIMARY CAUSE OF DEATH -

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Animal Note: CAUSE OF MOBILITY:SKIN LESIONS.

Animal Note: CAUSE OF MOBILITY:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 78

TRT#: 5

SEX: Male

DAY ON TEST: 324

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610938

OBSERVATIONS

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

SOA-Mass

Squamous Cell Papilloma

Note: ABSCESS HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN MASS,NOTED AT NECROPSY,IS LARGE SUBCUTANEOUS

Note: TGL#1:SKIN MASS,NOTED AT NECROPSY,IS LARGE SUBCUTANEOUS

Note: ABSCESS HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 4-2 ]

[ Acanthosis TGLS = 4-2 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 3-5 ]

[ Squamous Cell Carcinoma TGLS = 3-5 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:39

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 79

TRT#: 5

SEX: Male

DAY ON TEST: 198

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610939

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Marked
Control	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
Control	Ulcer	Multiple, Marked
Control	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 2-1,1,3-2+3 ]

[ Acanthosis TGLS = 2-1,1,3-2+3 ]

[ Acanthosis TGLS = 2-1,1,3-2+3 ]

[ Acanthosis TGLS = 2-1,1,3-2+3 ]

[ Inflammation TGLS = 2-1,1-3 ]

[ Inflammation TGLS = 2-1,1-3 ]

[ Inflammation TGLS = 2-1,1-3 ]

[ Inflammation TGLS = 2-1,1-3 ]

[ Ulcer TGLS = 2-1,1-3 ]

[ Ulcer TGLS = 2-1,1-3 ]

[ Ulcer TGLS = 2-1,1-3 ]

[ Ulcer TGLS = 2-1,1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:39

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 80

TRT#: 5

SEX: Male

DAY ON TEST: 216

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610940

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Marked
Control	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
Control	Ulcer	Marked
Control	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

Note: TGL#1:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

[ Acanthosis TGLS = 2-3,3-4 ]

[ Acanthosis TGLS = 2-3,3-4 ]

[ Acanthosis TGLS = 2-3,3-4 ]

[ Acanthosis TGLS = 2-3,3-4 ]

[ Inflammation TGLS = 2-3,3-4 ]

[ Inflammation TGLS = 2-3,3-4 ]

[ Inflammation TGLS = 2-3,3-4 ]

[ Inflammation TGLS = 2-3,3-4 ]

[ Squamous Cell Carcinoma TGLS = 1-2 ]

[ Squamous Cell Carcinoma TGLS = 1-2 ]

[ Ulcer TGLS = 2-3,3-4 ]

[ Ulcer TGLS = 2-3,3-4 ]

[ Ulcer TGLS = 2-3,3-4 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 80

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 216

**DOSE:** DMBA 2.5 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610940

---

**OBSERVATIONS**

[ Ulcer TGLS = 2-3,3-4 ]

---

PRIMARY CAUSE OF DEATH -

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Animal Note: CAUSE OF MORBIDITY:SKIN LEIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LEIONS.

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 81

TRT#: 5

SEX: Male

DAY ON TEST: 150

DOSE: DMBA 2.5 /TPA 1

DISP: Natural Death

HISTO: 8610941

OBSERVATIONS

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
	Acanthosis	Mild
	Acanthosis	Mild
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked
	Ulcer	Marked
	Ulcer	Marked

[ Acanthosis TGLS = 2-2,4-5 ]

[ Acanthosis TGLS = 2-2,4-5 ]

[ Acanthosis TGLS = 2-2,4-5 ]

[ Acanthosis TGLS = 2-2,4-5 ]

[ Acanthosis TGLS = 2-2,4-5 ]

[ Acanthosis TGLS = 2-2,4-5 ]

[ Inflammation TGLS = 1,3-3+4,4-5 ]

[ Inflammation TGLS = 1,3-3+4,4-5 ]

[ Inflammation TGLS = 1,3-3+4,4-5 ]

[ Inflammation TGLS = 1,3-3+4,4-5 ]

[ Inflammation TGLS = 1,3-3+4,4-5 ]

[ Inflammation TGLS = 1,3-3+4,4-5 ]

[ Ulcer TGLS = 4-5,1,3-3+4 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 81

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 150

**DOSE:** DMBA 2.5 /TPA 1

**DISP:** Natural Death

**HISTO:** 8610941

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**OBSERVATIONS**

[ Ulcer TGLS = 4-5,1,3-3+4 ]

[ Ulcer TGLS = 4-5,1,3-3+4 ]

[ Ulcer TGLS = 4-5,1,3-3+4 ]

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**PRIMARY CAUSE OF DEATH** -

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Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 82

TRT#: 5

SEX: Male

DAY ON TEST: 127

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610942

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:39

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 83

TRT#: 5

SEX: Male

DAY ON TEST: 304

DOSE: DMBA 2.5 /TPA 1

DISP: Natural Death

HISTO: 8610943

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

Note: ACANTHOTIC EPIDERMIS HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN MASS,NOTED AT NECROPSY,IS FOCUS OF MODERATELY

Note: ACANTHOTIC EPIDERMIS HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN MASS,NOTED AT NECROPSY,IS FOCUS OF MODERATELY

[ Acanthosis TGLS = 1,2,4-2+3+5 ]

[ Acanthosis TGLS = 1,2,4-2+3+5 ]

[ Acanthosis TGLS = 1,2,4-2+3+5 ]

[ Acanthosis TGLS = 1,2,4-2+3+5 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Squamous Cell Papilloma TGLS = 3-4 ]

[ Squamous Cell Papilloma TGLS = 3-4 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 84

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** DMBA 2.5 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8610944

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2,3-2+3+4 ]

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 85

TRT#: 5

SEX: Male

DAY ON TEST: 265

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610945

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Carcinoma TGLS = 1,2-3+7 ]

[ Squamous Cell Carcinoma TGLS = 1,2-3+7 ]

[ Squamous Cell Papilloma TGLS = 3,4,5-4+5+6 ]

[ Squamous Cell Papilloma TGLS = 3,4,5-4+5+6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY: MULTIPLE SKIN MASSES.

Animal Note: CAUSE OF MORBIDITY: MULTIPLE SKIN MASSES.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 86

TRT#: 5

SEX: Male

DAY ON TEST: 197

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610946

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	Multiple
SOA-Mass	Squamous Cell Carcinoma	Multiple
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

Note: CELL CARCINOMAS HISTOPATHOLOGICALLY.

Note: TGL#'S 3&4:SKIN LESIONS,NOTED AT NECROPSY,ARE SQUAMOUS

Note: TGL#2:SKIN MASS,NOTED AT NECROPSY,IS LARGE SUBCUTANEOUS

Note: ABSCESS HISTOPATHOLOGICALLY.

Note: TGL#'S 3&4:SKIN LESIONS,NOTED AT NECROPSY,ARE SQUAMOUS

Note: CELL CARCINOMAS HISTOPATHOLOGICALLY.

Note: ABSCESS HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN MASS,NOTED AT NECROPSY,IS LARGE SUBCUTANEOUS

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Squamous Cell Carcinoma TGLS = 3,4-2+5 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 86

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 197

**DOSE:** DMBA 2.5 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610946

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**OBSERVATIONS**

[ Squamous Cell Carcinoma TGLS = 3,4-2+5 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Ulcer TGLS = 2-4 ]

[ Ulcer TGLS = 2-4 ]

---

**PRIMARY CAUSE OF DEATH** -

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Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 87

TRT#: 5

SEX: Male

DAY ON TEST: 279

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610947

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control, Hair Follicle	Cyst	
Control, Hair Follicle	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	

Note: CYSTIC HAIR FOLLICLES INVOLVING THE CONTROL SKIN

Note: HISTOPATHOLOGICALLY.

Note: CYSTIC HAIR FOLLICLES INVOLVING THE CONTROL SKIN

Note: HISTOPATHOLOGICALLY.

Note: TGL#4:SKIN MASS,NOTED AT TRIM,IS FOCUS OF MULTIPLE

Note: TGL#4:SKIN MASS,NOTED AT TRIM,IS FOCUS OF MULTIPLE

[ Acanthosis TGLS = 2-2,3-1 ]

[ Acanthosis TGLS = 2-2,3-1 ]

[ Acanthosis TGLS = 2-2,3-1 ]

[ Acanthosis TGLS = 2-2,3-1 ]

[ Cyst TGLS = 4-3 ]

[ Cyst TGLS = 4-3 ]

[ Cyst TGLS = 4-3 ]

[ Cyst TGLS = 4-3 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 87

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 279

**DOSE:** DMBA 2.5 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610947

---

**OBSERVATIONS**

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

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Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:39

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 88

TRT#: 5

SEX: Male

DAY ON TEST: 202

DOSE: DMBA 2.5 /TPA 1

DISP: Natural Death

HISTO: 8610948

OBSERVATIONS

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 051117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 89

TRT#: 5

SEX: Male

DAY ON TEST: 257

DOSE: DMBA 2.5 /TPA 1

DISP: Natural Death

HISTO: 8610949

OBSERVATIONS

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
	Acanthosis	Moderate
	Acanthosis	Moderate
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
	Ulcer	Marked
	Ulcer	Marked

- [ Acanthosis TGLS = 3,4-2+3,5-4 ]
- [ Acanthosis TGLS = 3,4-2+3,5-4 ]
- [ Acanthosis TGLS = 3,4-2+3,5-4 ]
- [ Acanthosis TGLS = 3,4-2+3,5-4 ]
- [ Acanthosis TGLS = 3,4-2+3,5-4 ]
- [ Acanthosis TGLS = 3,4-2+3,5-4 ]
- [ Inflammation TGLS = 3-2,5-4 ]
- [ Inflammation TGLS = 3-2,5-4 ]
- [ Inflammation TGLS = 3-2,5-4 ]
- [ Inflammation TGLS = 3-2,5-4 ]
- [ Squamous Cell Papilloma TGLS = 1,2-5+6 ]
- [ Squamous Cell Papilloma TGLS = 1,2-5+6 ]
- [ Ulcer TGLS = 3-2,5-4 ]
- [ Ulcer TGLS = 3-2,5-4 ]
- [ Ulcer TGLS = 3-2,5-4 ]

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 89

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 257

**DOSE:** DMBA 2.5 /TPA 1

**DISP:** Natural Death

**HISTO:** 8610949

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**OBSERVATIONS**

[ Ulcer TGLS = 3-2,5-4 ]

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PRIMARY CAUSE OF DEATH -

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Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 90

TRT#: 5

SEX: Male

DAY ON TEST: 181

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610950

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 91

TRT#: 7

SEX: Male

DAY ON TEST: 162

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610861

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF

Note: INFLAMMED & ULCERATED EPIDERMIS COVERED WITH A SCAB.

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF

Note: INFLAMMED & ULCERATED EPIDERMIS COVERED WITH A SCAB.

Note: TGL#3:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: TGL#3:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

[ Acanthosis TGLS = 1,4-3+5 ]

[ Acanthosis TGLS = 1,4-3+5 ]

[ Acanthosis TGLS = 1,4-3+5 ]

[ Acanthosis TGLS = 1,4-3+5 ]

[ Inflammation TGLS = 1,4-3+5 ]

[ Inflammation TGLS = 1,4-3+5 ]

[ Inflammation TGLS = 1,4-3+5 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 91

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** DMBA 25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610861

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**OBSERVATIONS**

[ Inflammation TGLS = 1,4-3+5 ]

[ Squamous Cell Carcinoma TGLS = 3-4 ]

[ Squamous Cell Carcinoma TGLS = 3-4 ]

[ Squamous Cell Papilloma TGLS = 2-2 ]

[ Squamous Cell Papilloma TGLS = 2-2 ]

[ Ulcer TGLS = 1,4-3+5 ]

[ Ulcer TGLS = 1,4-3+5 ]

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**PRIMARY CAUSE OF DEATH** -

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Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 92

TRT#: 7

SEX: Male

DAY ON TEST: 355

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610862

OBSERVATIONS

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

Note: TGL#1:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-4 ]

[ Ulcer TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 051117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 93

TRT#: 7

SEX: Male

DAY ON TEST: 260

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610863

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
	Acanthosis	Marked
	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked
	Ulcer	Multiple, Marked
	Ulcer	Multiple, Marked

- [ Acanthosis TGLS = 1-3,2-4 ]
- [ Acanthosis TGLS = 1-3,2-4 ]
- [ Acanthosis TGLS = 1-3,2-4 ]
- [ Acanthosis TGLS = 1-3,2-4 ]
- [ Acanthosis TGLS = 1-3,2-4 ]
- [ Acanthosis TGLS = 1-3,2-4 ]
- [ Inflammation TGLS = 1-3,2-4 ]
- [ Inflammation TGLS = 1-3,2-4 ]
- [ Inflammation TGLS = 1-3,2-4 ]
- [ Inflammation TGLS = 1-3,2-4 ]
- [ Inflammation TGLS = 1-3,2-4 ]
- [ Ulcer TGLS = 1-3,2-4 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 93

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 260

**DOSE:** DMBA 25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610863

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**OBSERVATIONS**

[ Ulcer TGLS = 1-3,2-4 ]

[ Ulcer TGLS = 1-3,2-4 ]

[ Ulcer TGLS = 1-3,2-4 ]

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**PRIMARY CAUSE OF DEATH**

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Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 051117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 94

TRT#: 7

SEX: Male

DAY ON TEST: 293

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610864

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Carcinoma	Multiple
SOA-Mass	Squamous Cell Carcinoma	Multiple
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 3,4-5 ]

[ Acanthosis TGLS = 3,4-5 ]

[ Acanthosis TGLS = 3,4-5 ]

[ Acanthosis TGLS = 3,4-5 ]

[ Inflammation TGLS = 3,4-5 ]

[ Inflammation TGLS = 3,4-5 ]

[ Squamous Cell Carcinoma TGLS = 1,2-3+4 ]

[ Squamous Cell Carcinoma TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 3,4-5 ]

[ Ulcer TGLS = 3,4-5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: TGL#5:SKIN MASS VENTRAL TAIL,AS NOTED AT NECROPSY,

Animal Note: APPEARS AS A RECTAL PROLAPSE HISTOPATHOLOGICALLY.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: APPEARS AS A RECTAL PROLAPSE HISTOPATHOLOGICALLY.

Animal Note: TGL#5:SKIN MASS VENTRAL TAIL,AS NOTED AT NECROPSY,

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 95

TRT#: 7

SEX: Male

DAY ON TEST: 244

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610865

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

Note: TGL#2:SKIN DEFORMITY,NOTED AT NECROPSY,IS SQUAMOUS

Note: TGL#4:SKIN MASS,NOTED AT NECROPSY,IS SUBCUTANEOUS

Note: ABSCESS HISTOPATHOLOGICALLY.

Note: TGL#4:SKIN MASS,NOTED AT NECROPSY,IS SUBCUTANEOUS

Note: ABSCESS HISTOPATHOLOGICALLY.

Note: CELL CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN DEFORMITY,NOTED AT NECROPSY,IS SQUAMOUS

Note: CELL CARCINOMA HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 1,3,4-3+5+6 ]

[ Acanthosis TGLS = 1,3,4-3+5+6 ]

[ Acanthosis TGLS = 1,3,4-3+5+6 ]

[ Acanthosis TGLS = 1,3,4-3+5+6 ]

[ Inflammation TGLS = 1,3,4-3+5+6 ]

[ Inflammation TGLS = 1,3,4-3+5+6 ]

[ Inflammation TGLS = 1,3,4-3+5+6 ]

[ Inflammation TGLS = 1,3,4-3+5+6 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 95

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 244

**DOSE:** DMBA 25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610865

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**OBSERVATIONS**

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Ulcer TGLS = 1,3,4-3+5+6 ]

[ Ulcer TGLS = 1,3,4-3+5+6 ]

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**PRIMARY CAUSE OF DEATH**

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Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 96

TRT#: 7

SEX: Male

DAY ON TEST: 303

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610866

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
	Acanthosis	Moderate
	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	Multiple
SOA-Mass	Squamous Cell Carcinoma	Multiple
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked
	Ulcer	Marked
	Ulcer	Marked

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: TGL#2:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 3,4-2+5,5-6 ]

[ Acanthosis TGLS = 3,4-2+5,5-6 ]

[ Acanthosis TGLS = 3,4-2+5,5-6 ]

[ Acanthosis TGLS = 3,4-2+5,5-6 ]

[ Acanthosis TGLS = 3,4-2+5,5-6 ]

[ Acanthosis TGLS = 3,4-2+5,5-6 ]

[ Inflammation TGLS = 3,4-2+5,5-6 ]

[ Inflammation TGLS = 3,4-2+5,5-6 ]

[ Inflammation TGLS = 3,4-2+5,5-6 ]

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 96

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 303

**DOSE:** DMBA 25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610866

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**OBSERVATIONS**

- [ Inflammation TGLS = 3,4-2+5,5-6 ]
  - [ Inflammation TGLS = 3,4-2+5,5-6 ]
  - [ Inflammation TGLS = 3,4-2+5,5-6 ]
  - [ Squamous Cell Carcinoma TGLS = 1,2-3+4 ]
  - [ Squamous Cell Carcinoma TGLS = 1,2-3+4 ]
  - [ Ulcer TGLS = 3,4-2+5,5-6 ]
  - [ Ulcer TGLS = 3,4-2+5,5-6 ]
  - [ Ulcer TGLS = 3,4-2+5,5-6 ]
  - [ Ulcer TGLS = 3,4-2+5,5-6 ]
- 

**PRIMARY CAUSE OF DEATH** -

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Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 97

TRT#: 7

SEX: Male

DAY ON TEST: 281

DOSE: DMBA 25 /TPA 1

DISP: Natural Death

HISTO: 8610867

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

Note: TGL#8-NCL:SKIN MASS,LEFT FORELIMB,NOTED AT NECROPSY, NOT

Note: APPARENT HISTOPATHOLOGICALLY.

Note: MULTIPLE FOCI OF MODERATE ACANTHOSIS HISTOPATHO-

Note: MULTIPLE FOCI OF MODERATE ACANTHOSIS HISTOPATHO-

Note: TGL#'S 1,2,3,4&5:SKIN NODULES,NOTED AT NECROPSY,ARE

Note: LOGICALLY.

Note: APPARENT HISTOPATHOLOGICALLY.

Note: TGL#8-NCL:SKIN MASS,LEFT FORELIMB,NOTED AT NECROPSY, NOT

Note: LOGICALLY.

Note: TGL#'S 1,2,3,4&5:SKIN NODULES,NOTED AT NECROPSY,ARE

[ Acanthosis TGLS = 1,2,3,4,5,7-2+3+4 ]

[ Acanthosis TGLS = 1,2,3,4,5,7-2+3+4 ]

[ Acanthosis TGLS = 1,2,3,4,5,7-2+3+4 ]

[ Acanthosis TGLS = 1,2,3,4,5,7-2+3+4 ]

[ Inflammation TGLS = 5,6-4+5 ]

[ Inflammation TGLS = 5,6-4+5 ]

[ Ulcer TGLS = 5,6-4+5 ]

[ Ulcer TGLS = 5,6-4+5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 98	<b>TRT#:</b> 7 <b>DOSE:</b> DMBA 25 /TPA 1	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 133 <b>HISTO:</b> 8610868
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OBSERVATIONS

* Skin	SOA-No Mass	Acanthosis	Moderate
	SOA-No Mass	Acanthosis	Moderate
		Acanthosis	Moderate
		Acanthosis	Moderate
	SOA-No Mass	Inflammation	Chronic Active, Marked
	SOA-No Mass	Inflammation	Chronic Active, Marked
		Inflammation	Chronic Active, Marked
		Inflammation	Chronic Active, Marked
	SOA-No Mass	Ulcer	Multiple, Marked
	SOA-No Mass	Ulcer	Multiple, Marked
		Ulcer	Marked
		Ulcer	Marked

[ Acanthosis TGLS = 1,2,4-2+3+5,3-4 ]  
 [ Acanthosis TGLS = 1,2,4-2+3+5,3-4 ]  
 [ Acanthosis TGLS = 1,2,4-2+3+5,3-4 ]  
 [ Acanthosis TGLS = 1,2,4-2+3+5,3-4 ]  
 [ Inflammation TGLS = 1,2-2+3,3-4 ]  
 [ Inflammation TGLS = 1,2-2+3,3-4 ]  
 [ Inflammation TGLS = 1,2-2+3,3-4 ]  
 [ Inflammation TGLS = 1,2-2+3,3-4 ]  
 [ Ulcer TGLS = 1,2-2+3,3-4 ]  
 [ Ulcer TGLS = 1,2-2+3,3-4 ]  
 [ Ulcer TGLS = 1,2-2+3,3-4 ]  
 [ Ulcer TGLS = 1,2-2+3,3-4 ]

PRIMARY CAUSE OF DEATH -  
 Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.  
 Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 99

TRT#: 7

SEX: Male

DAY ON TEST: 99

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610869

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 100

TRT#: 7

SEX: Male

DAY ON TEST: 148

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610870

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

- [ Acanthosis TGLS = 1,2,3,4-2+3+4+5 ]
- [ Acanthosis TGLS = 1,2,3,4-2+3+4+5 ]
- [ Acanthosis TGLS = 1,2,3,4-2+3+4+5 ]
- [ Acanthosis TGLS = 1,2,3,4-2+3+4+5 ]
- [ Inflammation TGLS = 2,3,4-2+3+5 ]
- [ Inflammation TGLS = 2,3,4-2+3+5 ]
- [ Inflammation TGLS = 2,3,4-2+3+5 ]
- [ Inflammation TGLS = 2,3,4-2+3+5 ]
- [ Ulcer TGLS = 2,3,4-2+3+5 ]
- [ Ulcer TGLS = 2,3,4-2+3+5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 101

TRT#: 7

SEX: Male

DAY ON TEST: 289

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610871

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Marked
Control	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
Control	Ulcer	Marked
Control	Ulcer	Marked

[ Acanthosis TGLS = 2-1,3-2 ]

[ Acanthosis TGLS = 2-1,3-2 ]

[ Acanthosis TGLS = 2-1,3-2 ]

[ Acanthosis TGLS = 2-1,3-2 ]

[ Inflammation TGLS = 2-1 ]

[ Inflammation TGLS = 2-1 ]

[ Inflammation TGLS = 2-1 ]

[ Inflammation TGLS = 2-1 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-1 ]

[ Ulcer TGLS = 2-1 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 102

TRT#: 7

SEX: Male

DAY ON TEST: 129

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610872

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Squamous Cell Carcinoma TGLS = 1-2 ]

[ Squamous Cell Carcinoma TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 103

TRT#: 7

SEX: Male

DAY ON TEST: 265

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610873

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 2,3-2+3 ]

[ Acanthosis TGLS = 2,3-2+3 ]

[ Inflammation TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Ulcer TGLS = 2-3 ]

[ Ulcer TGLS = 2-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 104

TRT#: 7

SEX: Male

DAY ON TEST: 340

DOSE: DMBA 25 /TPA 1

DISP: Natural Death

HISTO: 8610874

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple

[ Squamous Cell Carcinoma TGLS = 1-5 ]

[ Squamous Cell Carcinoma TGLS = 1-5 ]

[ Squamous Cell Papilloma TGLS = 2,3-3+4 ]

[ Squamous Cell Papilloma TGLS = 2,3-3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 105

TRT#: 7

SEX: Male

DAY ON TEST: 296

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610875

OBSERVATIONS

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Keratoacanthoma

Multiple

SOA-Mass

Keratoacanthoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Keratoacanthoma TGLS = 2,3,4,5-4+5+6+7 ]

[ Keratoacanthoma TGLS = 2,3,4,5-4+5+6+7 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 3,4-5+6 ]

[ Squamous Cell Papilloma TGLS = 3,4-5+6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN MASSES.

Animal Note: CAUSE OF MORBIDITY:SKIN MASSES.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 106

TRT#: 7

SEX: Male

DAY ON TEST: 247

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610876

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN DEFORMITY,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN DEFORMITY,NOTED AT NECROPSY,IS SQUAMOUS CELL

- [ Acanthosis TGLS = 1-3 ]
- [ Acanthosis TGLS = 1-3 ]
- [ Acanthosis TGLS = 1-3 ]
- [ Acanthosis TGLS = 1-3 ]
- [ Inflammation TGLS = 1-3 ]
- [ Inflammation TGLS = 1-3 ]
- [ Inflammation TGLS = 1-3 ]
- [ Inflammation TGLS = 1-3 ]
- [ Squamous Cell Carcinoma TGLS = 2-2 ]
- [ Squamous Cell Carcinoma TGLS = 2-2 ]
- [ Squamous Cell Papilloma TGLS = 3-3 ]
- [ Squamous Cell Papilloma TGLS = 3-3 ]
- [ Ulcer TGLS = 1-3 ]

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 106

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 247

**DOSE:** DMBA 25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610876

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**OBSERVATIONS**

[ Ulcer TGLS = 1-3 ]

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PRIMARY CAUSE OF DEATH -

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Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 107

TRT#: 7

SEX: Male

DAY ON TEST: 265

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610877

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

Note: MODERATELY ACANTHOTIC EPIDERMIS HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF

Note: MODERATELY ACANTHOTIC EPIDERMIS HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF

[ Acanthosis TGLS = 2,3,4,5-2+3+5 ]

[ Acanthosis TGLS = 2,3,4,5-2+3+5 ]

[ Acanthosis TGLS = 2,3,4,5-2+3+5 ]

[ Acanthosis TGLS = 2,3,4,5-2+3+5 ]

[ Inflammation TGLS = 3,5-2+5 ]

[ Inflammation TGLS = 3,5-2+5 ]

[ Inflammation TGLS = 3,5-2+5 ]

[ Inflammation TGLS = 3,5-2+5 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Ulcer TGLS = 3,5-2+5 ]

[ Ulcer TGLS = 3,5-2+5 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 107

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 265

**DOSE:** DMBA 25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610877

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**OBSERVATIONS**

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 108

TRT#: 7

SEX: Male

DAY ON TEST: 162

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610878

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Papilloma

SOA-Mass

Squamous Cell Papilloma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Ulcer TGLS = 2-4 ]

[ Ulcer TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 109

TRT#: 7

DOSE: DMBA 25 /TPA 1

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 261

HISTO: 8610879

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
	Acanthosis	Moderate
	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Moderate
Control	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked
	Ulcer	Marked
	Ulcer	Marked

Note: TGL#2:SKIN MASS,NOTED AT NECROPSY,IS FOCUS OF MARKEDLY

Note: ACANTHOTIC EPIDERMIS HISTOPATHOLOGICALLY.

Note: ACANTHOTIC EPIDERMIS HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN MASS,NOTED AT NECROPSY,IS FOCUS OF MARKEDLY

[ Acanthosis TGLS = 4-5,2-4 ]

[ Acanthosis TGLS = 4-5,2-4 ]

[ Acanthosis TGLS = 4-5,2-4 ]

[ Acanthosis TGLS = 4-5,2-4 ]

[ Acanthosis TGLS = 4-5,2-4 ]

[ Acanthosis TGLS = 4-5,2-4 ]

[ Inflammation TGLS = 4-5,2,3-2+4 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 109

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 261

**DOSE:** DMBA 25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610879

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**OBSERVATIONS**

[ Inflammation TGLS = 4-5,2,3-2+4 ]

[ Inflammation TGLS = 4-5,2,3-2+4 ]

[ Inflammation TGLS = 4-5,2,3-2+4 ]

[ Inflammation TGLS = 4-5,2,3-2+4 ]

[ Inflammation TGLS = 4-5,2,3-2+4 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 4-5,2,3-2+4 ]

[ Ulcer TGLS = 4-5,2,3-2+4 ]

[ Ulcer TGLS = 4-5,2,3-2+4 ]

[ Ulcer TGLS = 4-5,2,3-2+4 ]

---

**PRIMARY CAUSE OF DEATH**

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 110

TRT#: 7

SEX: Male

DAY ON TEST: 164

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610880

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 111

TRT#: 7

SEX: Male

DAY ON TEST: 127

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610881

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 1,2-3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 112

TRT#: 7

SEX: Male

DAY ON TEST: 250

DOSE: DMBA 25 /TPA 1

DISP: Natural Death

HISTO: 8610882

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 2,3-2+4 ]

[ Acanthosis TGLS = 2,3-2+4 ]

[ Inflammation TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-4 ]

[ Ulcer TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN MASS.

Animal Note: CAUSE OF DEATH:SKIN MASS.

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 113

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 341

**DOSE:** DMBA 25 /TPA 1

**DISP:** Natural Death

**HISTO:** 8610883

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESION.

Animal Note: CAUSE OF DEATH:SKIN LESION.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 114

TRT#: 7

SEX: Male

DAY ON TEST: 251

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610884

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 115

TRT#: 7

SEX: Male

DAY ON TEST: 234

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610885

OBSERVATIONS

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Acanthosis

Moderate

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

Inflammation

Chronic Active, Marked

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

Ulcer

Multiple, Marked

Ulcer

Multiple, Marked

Note: TGL#7:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#7:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

[ Acanthosis TGLS = 6-5,9-3 ]

[ Acanthosis TGLS = 6-5,9-3 ]

[ Acanthosis TGLS = 6-5,9-3 ]

[ Acanthosis TGLS = 6-5,9-3 ]

[ Inflammation TGLS = 8,9-3+4 ]

[ Inflammation TGLS = 8,9-3+4 ]

[ Inflammation TGLS = 8,9-3+4 ]

[ Inflammation TGLS = 8,9-3+4 ]

[ Squamous Cell Carcinoma TGLS = 1,3,7-2+3+4 ]

[ Squamous Cell Carcinoma TGLS = 1,3,7-2+3+4 ]

[ Squamous Cell Papilloma TGLS = 2,4,5-5+6+7 ]

[ Squamous Cell Papilloma TGLS = 2,4,5-5+6+7 ]

[ Ulcer TGLS = 8,9-3+4 ]

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 115

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 234

**DOSE:** DMBA 25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610885

---

**OBSERVATIONS**

[ Ulcer TGLS = 8,9-3+4 ]

---

PRIMARY CAUSE OF DEATH -

---

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 116

TRT#: 7

DOSE: DMBA 25 /TPA 1

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 363

HISTO: 8610886

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

Note: TGL#3:SKIN MASS,LIP,NOTED AT NECROPSY,IS SUBCUTANEOUS

Note: ABSCESS HISTOPATHOLOGICALLY.

Note: TGL#3:SKIN MASS,LIP,NOTED AT NECROPSY,IS SUBCUTANEOUS

Note: ABSCESS HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 2,4,5-2+5 ]

[ Acanthosis TGLS = 2,4,5-2+5 ]

[ Acanthosis TGLS = 2,4,5-2+5 ]

[ Acanthosis TGLS = 2,4,5-2+5 ]

[ Inflammation TGLS = 2,4,5-2+5,3-4 ]

[ Inflammation TGLS = 2,4,5-2+5,3-4 ]

[ Inflammation TGLS = 2,4,5-2+5,3-4 ]

[ Inflammation TGLS = 2,4,5-2+5,3-4 ]

[ Inflammation TGLS = 2,4,5-2+5,3-4 ]

[ Inflammation TGLS = 2,4,5-2+5,3-4 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Ulcer TGLS = 2,4,5-2+5 ]

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 116

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** DMBA 25 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8610886

---

**OBSERVATIONS**

[ Ulcer TGLS = 2,4,5-2+5 ]

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 117

TRT#: 7

SEX: Male

DAY ON TEST: 253

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610887

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 1,3,4-3+5 ]

[ Squamous Cell Papilloma TGLS = 1,3,4-3+5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN MASSES.

Animal Note: CAUSE OF MORBIDITY:SKIN MASSES.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 118

TRT#: 7

SEX: Male

DAY ON TEST: 261

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610888

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 119

TRT#: 7

SEX: Male

DAY ON TEST: 267

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610889

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Minimal
Control	Inflammation	Chronic Active, Moderate
Control	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
Control	Ulcer	Marked
Control	Ulcer	Marked

Note: TGL#1:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 120

TRT#: 7

SEX: Male

DAY ON TEST: 314

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610890

**OBSERVATIONS**

\* Skin

SOA-Mass

Keratoacanthoma

Multiple

SOA-Mass

Keratoacanthoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Keratoacanthoma TGLS = 2,3,5-4+5+6 ]

[ Keratoacanthoma TGLS = 2,3,5-4+5+6 ]

[ Squamous Cell Carcinoma TGLS = 1,6-3+7 ]

[ Squamous Cell Carcinoma TGLS = 1,6-3+7 ]

[ Squamous Cell Papilloma TGLS = 3,4-5,6 ]

[ Squamous Cell Papilloma TGLS = 3,4-5,6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 121

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 286

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610801

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2,3,4,5-2+3+4+5+6 ]

[ Inflammation TGLS = 1,2,3,4,5-2+3+4+5+6 ]

[ Ulcer TGLS = 1,2,3,5-2+3+4+6 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

**Animal Note:** CAUSE OF MORBIDITY:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 122

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610802

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 123

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 265

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610803

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: CAUSE OF MORBIDITY:UNDETERMINED.

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 124

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 258

**DOSE:** TPA 1/ COMPLETE

**DISP:** Natural Death

**HISTO:** 8610804

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

---

**PRIMARY CAUSE OF DEATH**

-

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Animal Note: CAUSE OF DEATH:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 125

TRT#: 9

SEX: Male

DAY ON TEST: 244

DOSE: TPA 1/ COMPLETE

DISP: Moribund Sacrifice

HISTO: 8610805

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2,3-2+3+4+5 ]

[ Acanthosis TGLS = 1,2,3-2+3+4+5 ]

[ Inflammation TGLS = 1,2,3-2+3+4+5 ]

[ Squamous Cell Carcinoma TGLS = 4-6 ]

[ Ulcer TGLS = 1,2,3-3+4+5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 126

TRT#: 9

SEX: Male

DAY ON TEST: 175

DOSE: TPA 1/ COMPLETE

DISP: Moribund Sacrifice

HISTO: 8610806

OBSERVATIONS

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Marked

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

Ulcer

Marked

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Inflammation TGLS = 1-3,3,4,5-5+6+7 ]

[ Inflammation TGLS = 1-3,3,4,5-5+6+7 ]

[ Ulcer TGLS = 1-3,3,4,5-5+6+7 ]

[ Ulcer TGLS = 1-3,3,4,5-5+6+7 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 127

TRT#: 9

SEX: Male

DAY ON TEST: 133

DOSE: TPA 1/ COMPLETE

DISP: Moribund Sacrifice

HISTO: 8610807

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2,3,4,5,6-3+4+5 ]

[ Acanthosis TGLS = 1,2,3,4,5,6-3+4+5 ]

[ Inflammation TGLS = 1,2,3,4,5,6-3+4+5 ]

[ Ulcer TGLS = 1,2,3,4,5,6-3+4+5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 128

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610808

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 129

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 246

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610809

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 2-4 ]

[ Inflammation TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

**Animal Note:** CAUSE OF MORBIDITY:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 051117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 130

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 244

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610810

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 2-4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 1,2-3+4 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 131

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 113

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610811

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

Control

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Mild

Control

Ulcer

Marked

[ Acanthosis TGLS = 2-3 ]

[ Inflammation TGLS = 2-3,1-1 ]

[ Inflammation TGLS = 2-3,1-1 ]

[ Ulcer TGLS = 1-1 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

**Animal Note:** CAUSE OF MORBIDITY:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 132

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 150

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610812

**OBSERVATIONS**

\* Skin

Control  
SOA-No Mass  
Hair Follicle, SOA-No Mass  
Control  
SOA-No Mass  
SOA-No Mass

Acanthosis  
Acanthosis  
Cyst  
Inflammation  
Inflammation  
Ulcer

Moderate  
Moderate  
Chronic Active, Minimal  
Chronic Active, Marked  
Multiple, Marked

Note: TGL#2:SKIN MASS,NOTED AT NECROPSY,IS LARGE SCAB

Note: SECTION OF EPIDERMIS.

Note: COVERING A MARKEDLY INFLAMMED AND ULCERATED

[ Acanthosis TGLS = 1,4,5-2+5 ]

[ Acanthosis TGLS = 1,4,5-2+5 ]

[ Inflammation TGLS = 2,3-3+4 ]

[ Inflammation TGLS = 2,3-3+4 ]

[ Ulcer TGLS = 2,3-3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 133

TRT#: 9

SEX: Male

DAY ON TEST: 246

DOSE: TPA 1/ COMPLETE

DISP: Natural Death

HISTO: 8610813

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Cyst

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

Ulcer

Multiple, Marked

Ulcer

Marked

[ Acanthosis TGLS = 1-2,2-3 ]

[ Acanthosis TGLS = 1-2,2-3 ]

[ Acanthosis TGLS = 1-2,2-3 ]

[ Inflammation TGLS = 1-2,2-3 ]

[ Inflammation TGLS = 1-2,2-3 ]

[ Ulcer TGLS = 1-2,2-3 ]

[ Ulcer TGLS = 1-2,2-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 134

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 164

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610814

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 2,3-3+4 ]

[ Ulcer TGLS = 2,3-3+4 ]

---

**PRIMARY CAUSE OF DEATH**

-

**Animal Note:** CAUSE OF MORBIDITY:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 135

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 339

**DOSE:** TPA 1/ COMPLETE

**DISP:** Natural Death

**HISTO:** 8610815

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

**Animal Note:** CAUSE OF DEATH:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 136

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610816

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 137

TRT#: 9

SEX: Male

DAY ON TEST: 233

DOSE: TPA 1/ COMPLETE

DISP: Moribund Sacrifice

HISTO: 8610817

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 138

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 83

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610818

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Marked

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: CAUSE OF MORBIDITY:UNDETERMINED.

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 139

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610819

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Mild

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 140

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610820

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 141

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 134

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610821

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 142

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610822

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 143

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 288

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610823

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Marked

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Mild

Control

Ulcer

Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 2-1 ]

[ Inflammation TGLS = 2-1 ]

[ Ulcer TGLS = 2-1 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 144

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610824

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

[ Acanthosis TGLS = 1-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 145

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 244

**DOSE:** TPA 1/ COMPLETE

**DISP:** Natural Death

**HISTO:** 8610825

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 146

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 150

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610826

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2,3-2+3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 147

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610827

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 051117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 148

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610828

---

**OBSERVATIONS**

\* Skin

Control  
SOA-No Mass  
Hair Follicle, SOA-No Mass  
SOA-No Mass

Acanthosis  
Acanthosis  
Cyst  
Inflammation

Moderate  
Marked  
Chronic Active, Mild

Note: MARKED ACANTHOSIS HISTOPATHOLOGICALLY.

Note: TGL# 2&3:SKIN MASSES,NOTED AT TRIM,ARE FOCI OF

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 149

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 295

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610829

**OBSERVATIONS**

\* Skin

Control  
SOA-No Mass  
Hair Follicle, SOA-No Mass  
Control  
SOA-No Mass  
SOA-No Mass

Acanthosis  
Acanthosis  
Cyst  
Inflammation  
Inflammation  
Ulcer

Mild  
Marked  
  
Chronic Active, Minimal  
Chronic Active, Marked  
Multiple, Marked

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1,2-2+3 ]

**PRIMARY CAUSE OF DEATH**

-

**Animal Note:** CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 150

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 234

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610830

**OBSERVATIONS**

\* Skin

Control  
SOA-No Mass  
Hair Follicle, SOA-No Mass  
Control  
SOA-No Mass

Acanthosis  
Acanthosis  
Cyst  
Inflammation  
Inflammation

Mild  
Moderate  
  
Chronic Active, Minimal  
Chronic Active, Moderate

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 051117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 151

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 134

**DOSE:** MNNG 100 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611101

---

**OBSERVATIONS**

\* Skin

Hair Follicle

Cyst

Hair Follicle

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Cyst TGLS = 1-3,2-4 ]

[ Cyst TGLS = 1-3,2-4 ]

[ Ulcer TGLS = 3-2 ]

[ Ulcer TGLS = 3-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:39

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 152

TRT#: 11

SEX: Male

DAY ON TEST: 297

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611102

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Ulcer TGLS = 1-4 ]

[ Ulcer TGLS = 1-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:39

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 153

TRT#: 11

SEX: Male

DAY ON TEST: 183

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611103

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
	Ulcer	Marked
	Ulcer	Marked

[ Ulcer TGLS = 4-5,5-3,1-5,2-2,3-4 ]

[ Ulcer TGLS = 4-5,5-3,1-5,2-2,3-4 ]

[ Ulcer TGLS = 4-5,5-3,1-5,2-2,3-4 ]

[ Ulcer TGLS = 4-5,5-3,1-5,2-2,3-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 154

TRT#: 11

SEX: Male

DAY ON TEST: 260

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611104

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 155

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 215

**DOSE:** MNNG 100 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611105

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 156

TRT#: 11

SEX: Male

DAY ON TEST: 363

DOSE: MNNG 100 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611106

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Acanthosis TGLS = 8-2,7-4,4-6 ]

[ Acanthosis TGLS = 8-2,7-4,4-6 ]

[ Squamous Cell Papilloma TGLS = 1-3,5-4,2-5,3-5 ]

[ Squamous Cell Papilloma TGLS = 1-3,5-4,2-5,3-5 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose MF: NA / NA

Lab: BAT

ANIMAL ID: 157

TRT#: 11

SEX: Male

DAY ON TEST: 171

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611107

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Ulcer TGLS = 1-3,2-2 ]

[ Ulcer TGLS = 1-3,2-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 158

TRT#: 11

SEX: Male

DAY ON TEST: 303

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611108

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

Ulcer

Marked

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-4 ]

[ Ulcer TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 159

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 211

**DOSE:** MNNG 100 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611109

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Ulcer TGLS = 1-3,2-4,3-5,4-6 ]

[ Ulcer TGLS = 1-3,2-4,3-5,4-6 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 160

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 217

**DOSE:** MNNG 100 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611110

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

Control

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-No Mass

Ulcer

Moderate

SOA-No Mass

Ulcer

Moderate

[ Squamous Cell Carcinoma TGLS = 1-3,2-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3,2-2 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 161

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8611111

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Papilloma TGLS = 1-3,2-4,4-5,6-6,8-7 ]

[ Squamous Cell Papilloma TGLS = 1-3,2-4,4-5,6-6,8-7 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 162

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8611112

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Papilloma TGLS = 1-3,2-4,3-5 ]

[ Squamous Cell Papilloma TGLS = 1-3,2-4,3-5 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 163

TRT#: 11

SEX: Male

DAY ON TEST: 363

DOSE: MNNG 100 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611113

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 164

TRT#: 11

SEX: Male

DAY ON TEST: 288

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611114

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Ulcer TGLS = 1-4,2-3,3-2 ]

[ Ulcer TGLS = 1-4,2-3,3-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 165

TRT#: 11

SEX: Male

DAY ON TEST: 265

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611115

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 166

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 199

**DOSE:** MNNG 100 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611116

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 4-2 ]

[ Acanthosis TGLS = 4-2 ]

[ Acanthosis TGLS = 4-2 ]

[ Acanthosis TGLS = 4-2 ]

[ Ulcer TGLS = 5-2,1-3,2-4,3-5 ]

[ Ulcer TGLS = 5-2,1-3,2-4,3-5 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 167

TRT#: 11

SEX: Male

DAY ON TEST: 363

DOSE: MNNG 100 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611117

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 168

TRT#: 11

SEX: Male

DAY ON TEST: 260

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611118

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
	Ulcer	Marked
	Ulcer	Marked

[ Ulcer TGLS = 1-4,2-3 ]

[ Ulcer TGLS = 1-4,2-3 ]

[ Ulcer TGLS = 1-4,2-3 ]

[ Ulcer TGLS = 1-4,2-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 169

**TRT#:** 11  
**DOSE:** MNNG 100 /TPA 1

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:** 246  
**HISTO:** 8611119

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
	Ulcer	Marked
	Ulcer	Marked

[ Acanthosis TGLS = 2-2 ]  
[ Acanthosis TGLS = 2-2 ]  
[ Acanthosis TGLS = 2-2 ]  
[ Acanthosis TGLS = 2-2 ]  
[ Ulcer TGLS = 1-4,3-3 ]  
[ Ulcer TGLS = 1-4,3-3 ]  
[ Ulcer TGLS = 1-4,3-3 ]  
[ Ulcer TGLS = 1-4,3-3 ]

**PRIMARY CAUSE OF DEATH** -

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 170

TRT#: 11

SEX: Male

DAY ON TEST: 169

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611120

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 171

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8611121

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**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 3-5 ]

[ Squamous Cell Carcinoma TGLS = 3-5 ]

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 051117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 172

TRT#: 11

SEX: Male

DAY ON TEST: 347

DOSE: MNNG 100 /TPA 1

DISP: Natural Death

HISTO: 8611122

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Epithelium	Hyperplasia	Moderate
Epithelium	Hyperplasia	Moderate
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-Mass	Ulcer	Marked
SOA-Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Moderate
SOA-No Mass	Ulcer	Moderate

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 2-4 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH DUE TO SKIN LESIONS

Animal Note: CAUSE OF DEATH DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 173

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 167

**DOSE:** MNNG 100 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611123

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Ulcer TGLS = 1-4,2-3 ]

[ Ulcer TGLS = 1-4,2-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 174

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 181

**DOSE:** MNNG 100 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611124

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Ulcer TGLS = 1-3,2-2,3-4,4-5 ]

[ Ulcer TGLS = 1-3,2-2,3-4,4-5 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 175

TRT#: 11

SEX: Male

DAY ON TEST: 297

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611125

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

SOA-Mass

Squamous Cell Papilloma

[ Squamous Cell Carcinoma TGLS = 1,2-3,6 ]

[ Squamous Cell Carcinoma TGLS = 1,2-3,6 ]

[ Squamous Cell Papilloma TGLS = 4-4 ]

[ Squamous Cell Papilloma TGLS = 4-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 176

TRT#: 11

SEX: Male

DAY ON TEST: 162

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611126

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-Mass	Acanthosis	Mild
SOA-Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
	Ulcer	Marked
	Ulcer	Marked

[ Acanthosis TGLS = 4-6 ]

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 4-6 ]

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Ulcer TGLS = 2-4,3-5,5-7 ]

[ Ulcer TGLS = 2-4,3-5,5-7 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:39

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SEN CAR

Lab: BAT

ANIMAL ID: 177

TRT#: 11

SEX: Male

DAY ON TEST: 246

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611127

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Ulcer TGLS = 3-4 ]

[ Ulcer TGLS = 3-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 178

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8611128

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 179

TRT#: 11

SEX: Male

DAY ON TEST: 149

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611129

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Moderate
SOA-No Mass	Ulcer	Moderate

[ Ulcer TGLS = 1-2,2-3,3-4,4-5 ]

[ Ulcer TGLS = 1-2,2-3,3-4,4-5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 180

TRT#: 11

SEX: Male

DAY ON TEST: 363

DOSE: MNNG 100 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611130

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 181

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 260

**DOSE:** MNNG1000 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611041

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: MORIBUND SAC DUE TO SKIN LESION

Animal Note: MORIBUND SAC DUE TO SKIN LESION

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 182

TRT#: 13

SEX: Male

DAY ON TEST: 212

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611042

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESION

Animal Note: MORIBUND SAC DUE TO SKIN LESION

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 183

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 83

**DOSE:** MNNG1000 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611043

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: MORIBUND SAC DUE TO SKIN LESION

Animal Note: MORIBUND SAC DUE TO SKIN LESION

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 184

TRT#: 13

SEX: Male

DAY ON TEST: 38

DOSE: MNNG1000 /TPA 1

DISP: Natural Death

HISTO: 8611044

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Ulcer TGLS = 2-3 ]

[ Ulcer TGLS = 2-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: COD UNDETERMINED

Animal Note: COD UNDETERMINED

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 185

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG1000 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8611045

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 186

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 99

**DOSE:** MNNG1000 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611046

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: MORIBUND SAC DUE TO SKIN LESION

Animal Note: MORIBUND SAC DUE TO SKIN LESION

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 187

TRT#: 13

SEX: Male

DAY ON TEST: 224

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611047

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESION

Animal Note: MORIBUND SAC DUE TO SKIN LESION

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:39

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 188

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 211

**DOSE:** MNNG1000 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611048

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

[ Squamous Cell Carcinoma TGLS = 1-3,2-4 ]

[ Squamous Cell Carcinoma TGLS = 1-3,2-4 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: MORIBUND SAC DUE TO SKIN MASS

Animal Note: MORIBUND SAC DUE TO SKIN MASS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:39

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 189

TRT#: 13

SEX: Male

DAY ON TEST: 50

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611049

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 1-3,3-4 ]

[ Squamous Cell Carcinoma TGLS = 1-3,3-4 ]

[ Ulcer TGLS = 2-5 ]

[ Ulcer TGLS = 2-5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN MASS

Animal Note: MORIBUND SAC DUE TO SKIN MASS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 190

TRT#: 13

SEX: Male

DAY ON TEST: 156

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611050

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

SOA-Mass

Squamous Cell Papilloma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN MASS

Animal Note: MORIBUND SAC DUE TO SKIN MASS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 191

TRT#: 13

SEX: Male

DAY ON TEST: 273

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611051

**OBSERVATIONS**

\* Skin

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass, Subcut Tiss

Sarcoma

SOA-Mass, Subcut Tiss

Sarcoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Sarcoma TGLS = 1-3 ]

[ Sarcoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Ulcer TGLS = 3-2,1-3 ]

[ Ulcer TGLS = 3-2,1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN MASS

Animal Note: MORIBUND SAC DUE TO SKIN MASS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 192

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 274

**DOSE:** MNNG1000 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611052

**OBSERVATIONS**

\* Skin

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 1-3,3-4 ]

[ Squamous Cell Carcinoma TGLS = 1-3,3-4 ]

[ Ulcer TGLS = 2-5 ]

[ Ulcer TGLS = 2-5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN MASS

Animal Note: MORIBUND SAC DUE TO SKIN MASS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 193

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 91

**DOSE:** MNNG1000 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611053

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Ulcer TGLS = 1-3,1-4 ]

[ Ulcer TGLS = 1-3,1-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 194

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 244

**DOSE:** MNNG1000 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611054

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

[ Acanthosis TGLS = 1-3,2-4,3-5 ]

[ Acanthosis TGLS = 1-3,2-4,3-5 ]

[ Cyst TGLS = 4-6 ]

[ Cyst TGLS = 4-6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 195

TRT#: 13

SEX: Male

DAY ON TEST: 148

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611055

OBSERVATIONS

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
	Alopecia	
	Alopecia	
SOA-Mass	Basal Cell Carcinoma	
SOA-Mass	Basal Cell Carcinoma	
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 5-2 ]

[ Acanthosis TGLS = 5-2 ]

[ Acanthosis TGLS = 5-2 ]

[ Acanthosis TGLS = 5-2 ]

[ Alopecia TGLS = 3-5 ]

[ Alopecia TGLS = 3-5 ]

[ Basal Cell Carcinoma TGLS = 1-3 ]

[ Basal Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-4,4-6 ]

[ Ulcer TGLS = 2-4,4-6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose MF: NA / NA

Lab: BAT

ANIMAL ID: 196

TRT#: 13

SEX: Male

DAY ON TEST: 169

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611056

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
Control	Inflammation	Chronic Active, Moderate
Control	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
Control	Ulcer	Marked
Control	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Ulcer TGLS = 1-3,2-4,4-5 ]

[ Ulcer TGLS = 1-3,2-4,4-5 ]

[ Ulcer TGLS = 1-3,2-4,4-5 ]

[ Ulcer TGLS = 1-3,2-4,4-5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 051117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 197

TRT#: 13

SEX: Male

DAY ON TEST: 148

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611057

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 6-2 ]

[ Acanthosis TGLS = 6-2 ]

[ Acanthosis TGLS = 6-2 ]

[ Acanthosis TGLS = 6-2 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 3-5 ]

[ Squamous Cell Papilloma TGLS = 3-5 ]

[ Ulcer TGLS = 4-6,5-7 ]

[ Ulcer TGLS = 4-6,5-7 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 198

TRT#: 13

SEX: Male

DAY ON TEST: 182

DOSE: MNNG1000 /TPA 1

DISP: Natural Death

HISTO: 8611058

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
	Ulcer	Marked
	Ulcer	Marked

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 3-2,4-5 ]

[ Ulcer TGLS = 3-2,4-5 ]

[ Ulcer TGLS = 3-2,4-5 ]

[ Ulcer TGLS = 3-2,4-5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: COD SKIN LESIONS

Animal Note: COD SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 051117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 199

TRT#: 13

SEX: Male

DAY ON TEST: 120

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611059

OBSERVATIONS

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
SOA-No Mass, Subcut Tiss	Sarcoma	
SOA-No Mass, Subcut Tiss	Sarcoma	
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
	Ulcer	Marked
	Ulcer	Marked

[ Sarcoma TGLS = 1-5 ]

[ Sarcoma TGLS = 1-5 ]

[ Squamous Cell Papilloma TGLS = 2-3,3-4 ]

[ Squamous Cell Papilloma TGLS = 2-3,3-4 ]

[ Ulcer TGLS = 4-2,5-6 ]

[ Ulcer TGLS = 4-2,5-6 ]

[ Ulcer TGLS = 4-2,5-6 ]

[ Ulcer TGLS = 4-2,5-6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 200

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 226

**DOSE:** MNNG1000 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611060

**OBSERVATIONS**

\* Skin

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Ulcer TGLS = 3-2,1-3,4-5 ]

[ Ulcer TGLS = 3-2,1-3,4-5 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 201

TRT#: 13

SEX: Male

DAY ON TEST: 159

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611061

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

Control

Inflammation

Chronic Active, Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 202

TRT#: 13

SEX: Male

DAY ON TEST: 156

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611062

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 3-4,2-5,6-6,5-7 ]

[ Squamous Cell Papilloma TGLS = 3-4,2-5,6-6,5-7 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 203

TRT#: 13

SEX: Male

DAY ON TEST: 183

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 9611063

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

Control

Inflammation

Chronic Active, Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Cyst TGLS = 1-3 ]

[ Cyst TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 204

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 197

**DOSE:** MNNG1000 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611064

**OBSERVATIONS**

\* Skin

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

[ Ulcer TGLS = 2-2 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 205

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 148

**DOSE:** MNNG1000 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611065

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Alopecia

SOA-No Mass

Alopecia

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Alopecia TGLS = 1-4 ]

[ Alopecia TGLS = 1-4 ]

[ Squamous Cell Carcinoma TGLS = 3-2 ]

[ Squamous Cell Carcinoma TGLS = 3-2 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 206

TRT#: 13

SEX: Male

DAY ON TEST: 160

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611066

OBSERVATIONS

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

Ulcer

Moderate

Ulcer

Moderate

[ Acanthosis TGLS = 1-2,2-3 ]

[ Acanthosis TGLS = 1-2,2-3 ]

[ Squamous Cell Carcinoma TGLS = 4-5 ]

[ Squamous Cell Carcinoma TGLS = 4-5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 207

TRT#: 13

SEX: Male

DAY ON TEST: 199

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611067

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

Ulcer

Marked

Ulcer

Marked

[ Acanthosis TGLS = 4-2 ]

[ Acanthosis TGLS = 4-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-4,3-5 ]

[ Ulcer TGLS = 2-4,3-5 ]

[ Ulcer TGLS = 2-4,3-5 ]

[ Ulcer TGLS = 2-4,3-5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 208

TRT#: 13

SEX: Male

DAY ON TEST: 167

DOSE: MNNG1000 /TPA 1

DISP: Natural Death

HISTO: 8611068

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-4 ]

[ Ulcer TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: COD SKIN LESION

Animal Note: COD SKIN LESION

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 209

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 197

**DOSE:** MNNG1000 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611069

**OBSERVATIONS**

\* Skin

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 1-3,2-4 ]

[ Squamous Cell Carcinoma TGLS = 1-3,2-4 ]

[ Ulcer TGLS = 3-2 ]

[ Ulcer TGLS = 3-2 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 210

TRT#: 13

SEX: Male

DAY ON TEST: 150

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611070

OBSERVATIONS

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Alopecia

Alopecia

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Moderate

SOA-No Mass

Ulcer

Moderate

[ Acanthosis TGLS = 8-2 ]

[ Acanthosis TGLS = 8-2 ]

[ Alopecia TGLS = 1-3 ]

[ Alopecia TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Ulcer TGLS = 3-4,4-5,5-5,6-6,7-6 ]

[ Ulcer TGLS = 3-4,4-5,5-5,6-6,7-6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 211

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610771

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 212

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 158

**DOSE:** VEHICLE CONTROL

**DISP:** Natural Death

**HISTO:** 8610772

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 213

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610773

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 214

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610774

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 215

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610775

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 216

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 214

**DOSE:** VEHICLE CONTROL

**DISP:** Natural Death

**HISTO:** 8610776

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: COD UNDETERMINED

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 217

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610777

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 218

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610778

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 219

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610779

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 220

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610780

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 221

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610781

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 222

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610782

---

**OBSERVATIONS**

Mammary Gland

Carcinoma Nos

[ Carcinoma Nos TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 223

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610783

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 224

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610784

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 225

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610785

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 226

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610786

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 227

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610787

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 228

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610788

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 229

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610789

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 230

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610790

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 231

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610791

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 232

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610792

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 233

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610793

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 234

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610794

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 235

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610795

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 236

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610796

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 237

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610797

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 238

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610798

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 239

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 8610799

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 240

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 14

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** 8610800

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

Ulcer

Marked

[ Ulcer TGLS = 1-3,2-4 ]

[ Ulcer TGLS = 1-3,2-4 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 241

TRT#: 4

SEX: Female

DAY ON TEST: 167

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611011

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
	Acanthosis	Moderate
	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Marked
Control	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
Control	Ulcer	Marked
Control	Ulcer	Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked
	Ulcer	Marked
	Ulcer	Marked

[ Acanthosis TGLS = 4-3,3-4,1,2-2+5 ]

[ Acanthosis TGLS = 4-3,3-4,1,2-2+5 ]

[ Acanthosis TGLS = 4-3,3-4,1,2-2+5 ]

[ Acanthosis TGLS = 4-3,3-4,1,2-2+5 ]

[ Acanthosis TGLS = 4-3,3-4,1,2-2+5 ]

[ Acanthosis TGLS = 4-3,3-4,1,2-2+5 ]

[ Inflammation TGLS = 4-3,3-4,1,2-2+5 ]

[ Inflammation TGLS = 4-3,3-4,1,2-2+5 ]

[ Inflammation TGLS = 4-3,3-4,1,2-2+5 ]

[ Inflammation TGLS = 4-3,3-4,1,2-2+5 ]

[ Inflammation TGLS = 4-3,3-4,1,2-2+5 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 241

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 167

**DOSE:** DMBA0.25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611011

---

**OBSERVATIONS**

[ Inflammation TGLS = 4-3,3-4,1,2-2+5 ]

[ Ulcer TGLS = 3-4,1,2-2+5,4-3 ]

[ Ulcer TGLS = 3-4,1,2-2+5,4-3 ]

[ Ulcer TGLS = 3-4,1,2-2+5,4-3 ]

[ Ulcer TGLS = 3-4,1,2-2+5,4-3 ]

[ Ulcer TGLS = 3-4,1,2-2+5,4-3 ]

[ Ulcer TGLS = 3-4,1,2-2+5,4-3 ]

---

**PRIMARY CAUSE OF DEATH** -

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Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 242

TRT#: 4

SEX: Female

DAY ON TEST: 363

DOSE: DMBA0.25 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611012

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 243

TRT#: 4

SEX: Female

DAY ON TEST: 316

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611013

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 244

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 106

**DOSE:** DMBA0.25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611014

---

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild

---

**PRIMARY CAUSE OF DEATH**

-

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Animal Note: CAUSE OF MORBIDITY:UNDETERMINED.

Animal Note: CAUSE OF MORBIDITY:UNDETERMINED.

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 245

TRT#: 4

SEX: Female

DAY ON TEST: 363

DOSE: DMBA0.25 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611015

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 2,3-4+5 ]

[ Squamous Cell Papilloma TGLS = 2,3-4+5 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 246

TRT#: 4

SEX: Female

DAY ON TEST: 363

DOSE: DMBA0.25 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611016

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Minimal
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	

Note: TGL#1: MULTIPLE SKIN NODULES, NOTED AT NECROPSY, ARE

Note: TGL#1: MULTIPLE SKIN NODULES, NOTED AT NECROPSY, ARE

Note: LOGICALLY.

Note: FOCI OF MARKEDLY ACANTHOTIC EPIDERMIS HISTOPATHO-

Note: LOGICALLY.

Note: FOCI OF MARKEDLY ACANTHOTIC EPIDERMIS HISTOPATHO-

[ Acanthosis TGLS = 1-4 ]

[ Acanthosis TGLS = 1-4 ]

[ Acanthosis TGLS = 1-4 ]

[ Acanthosis TGLS = 1-4 ]

[ Squamous Cell Papilloma TGLS = 2-3 ]

[ Squamous Cell Papilloma TGLS = 2-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 247

TRT#: 4

SEX: Female

DAY ON TEST: 120

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611017

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:40

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 248

TRT#: 4

SEX: Female

DAY ON TEST: 293

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611018

OBSERVATIONS

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
	Squamous Cell Papilloma	
	Squamous Cell Papilloma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

Note: DERMIS AND SUBCUTIS HISTOPATHOLOGICALLY.

Note: ACANTHOTIC EPIDERMIS AND INFLAMMED AND HEMORRHAGIC

Note: DERMIS AND SUBCUTIS HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN MASS,NOTED AT NECROPSY,IS FOCUS OF MARKEDLY

Note: ACANTHOTIC EPIDERMIS AND INFLAMMED AND HEMORRHAGIC

Note: TGL#2:SKIN MASS,NOTED AT NECROPSY,IS FOCUS OF MARKEDLY

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Squamous Cell Papilloma TGLS = 3-4 ]

[ Squamous Cell Papilloma TGLS = 3-4 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 249

TRT#: 4

SEX: Female

DAY ON TEST: 120

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611019

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

Note: INFLAMMED AND ULCERATED EPIDERMIS COVERED WITH A SCAB

Note: TGL#1:SKIN MASS,NOTED AT NECROPSY,IS FOCUS OF MARKEDLY

Note: HISTOPATHOLOGICALLY.

Note: INFLAMMED AND ULCERATED EPIDERMIS COVERED WITH A SCAB

Note: TGL#1:SKIN MASS,NOTED AT NECROPSY,IS FOCUS OF MARKEDLY

Note: HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 250

TRT#: 4

SEX: Female

DAY ON TEST: 198

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611020

OBSERVATIONS

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

Note: PATHOLOGICALLY.

Note: PATHOLOGICALLY.

Note: TGL#1:SKIN MASS,NOTED AT NECROPSY,NOT SEEN HISTO-

Note: TGL#1:SKIN MASS,NOTED AT NECROPSY,NOT SEEN HISTO-

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Inflammation TGLS = 2,3,4-2+3+4 ]

[ Inflammation TGLS = 2,3,4-2+3+4 ]

[ Inflammation TGLS = 2,3,4-2+3+4 ]

[ Inflammation TGLS = 2,3,4-2+3+4 ]

[ Ulcer TGLS = 2,3,4-2+3+4 ]

[ Ulcer TGLS = 2,3,4-2+3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 251

TRT#: 4

SEX: Female

DAY ON TEST: 287

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611021

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 1,2-3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:40

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 252

TRT#: 4

SEX: Female

DAY ON TEST: 199

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611022

OBSERVATIONS

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

Acanthosis

Marked

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

Inflammation

Chronic Active, Marked

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

Ulcer

Marked

Ulcer

Marked

[ Acanthosis TGLS = 2,3-2+3,1-4 ]

[ Acanthosis TGLS = 2,3-2+3,1-4 ]

[ Acanthosis TGLS = 2,3-2+3,1-4 ]

[ Acanthosis TGLS = 2,3-2+3,1-4 ]

[ Inflammation TGLS = 2,3-2+3,1-4 ]

[ Inflammation TGLS = 2,3-2+3,1-4 ]

[ Inflammation TGLS = 2,3-2+3,1-4 ]

[ Inflammation TGLS = 2,3-2+3,1-4 ]

[ Ulcer TGLS = 2,3-2+3,1-4 ]

[ Ulcer TGLS = 2,3-2+3,1-4 ]

[ Ulcer TGLS = 2,3-2+3,1-4 ]

[ Ulcer TGLS = 2,3-2+3,1-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 253

TRT#: 4

SEX: Female

DAY ON TEST: 157

DOSE: DMBA0.25 /TPA 1

DISP: Natural Death

HISTO: 8611023

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Squamous Cell Papilloma TGLS = 2-3 ]

[ Squamous Cell Papilloma TGLS = 2-3 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 254

TRT#: 4

SEX: Female

DAY ON TEST: 316

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611024

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 255

TRT#: 4

SEX: Female

DAY ON TEST: 247

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611025

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 1,2-3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 256

TRT#: 4

SEX: Female

DAY ON TEST: 363

DOSE: DMBA0.25 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611026

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Minimal
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:40

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 257

TRT#: 4

SEX: Female

DAY ON TEST: 363

DOSE: DMBA0.25 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611027

OBSERVATIONS

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple

Note: TGL#2:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF MARKEDLY

Note: TGL#2:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF MARKEDLY

Note: ACANTHOTIC EPIDERMIS HISTOPATHOLOGICALLY.

Note: ACANTHOTIC EPIDERMIS HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 1,3-3+5 ]

[ Squamous Cell Papilloma TGLS = 1,3-3+5 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 258

TRT#: 4

SEX: Female

DAY ON TEST: 342

DOSE: DMBA0.25 /TPA 1

DISP: Natural Death

HISTO: 8611028

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Papilloma TGLS = 1,2,3,4-3+4+5+6 ]

[ Squamous Cell Papilloma TGLS = 1,2,3,4-3+4+5+6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 259

TRT#: 4

SEX: Female

DAY ON TEST: 99

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611029

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2,3-3+4+5 ]

[ Acanthosis TGLS = 1,2,3-3+4+5 ]

[ Inflammation TGLS = 1,2,3-3+4+5 ]

[ Inflammation TGLS = 1,2,3-3+4+5 ]

[ Ulcer TGLS = 1,2,3-3+4+5 ]

[ Ulcer TGLS = 1,2,3-3+4+5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 260

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** DMBA0.25 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8611030

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**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 261

TRT#: 4

SEX: Female

DAY ON TEST: 336

DOSE: DMBA0.25 /TPA 1

DISP: Natural Death

HISTO: 8611031

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control, Hair Follicle	Cyst	
Control, Hair Follicle	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

Note: LYMPH NODE HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN NODULE,NOTED AT NECROPSY,IS SUBCUTANEOUS

Note: TGL#2:SKIN NODULE,NOTED AT NECROPSY,IS SUBCUTANEOUS

Note: TGL#1:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF

Note: MODERATELY ACANTHOTIC,INFLAMMED AND ULCERATED EPIDERMIS

Note: MODERATELY ACANTHOTIC,INFLAMMED AND ULCERATED EPIDERMIS

Note: TGL#1:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF

Note: HISTOPATHOLOGICALLY.

Note: LYMPH NODE HISTOPATHOLOGICALLY.

Note: HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 1,2,3,4-2+3+4+5 ]

[ Acanthosis TGLS = 1,2,3,4-2+3+4+5 ]

[ Acanthosis TGLS = 1,2,3,4-2+3+4+5 ]

[ Acanthosis TGLS = 1,2,3,4-2+3+4+5 ]

[ Inflammation TGLS = 1,2,3,4-2+3+4+5 ]

[ Inflammation TGLS = 1,2,3,4-2+3+4+5 ]

[ Inflammation TGLS = 1,2,3,4-2+3+4+5 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 261

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 336

**DOSE:** DMBA0.25 /TPA 1

**DISP:** Natural Death

**HISTO:** 8611031

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**OBSERVATIONS**

[ Inflammation TGLS = 1,2,3,4-2+3+4+5 ]

[ Ulcer TGLS = 1,2,3-3+4+5 ]

[ Ulcer TGLS = 1,2,3-3+4+5 ]

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**PRIMARY CAUSE OF DEATH**

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Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 262

TRT#: 4

SEX: Female

DAY ON TEST: 363

DOSE: DMBA0.25 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611032

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 263

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** DMBA0.25 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8611033

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 264

TRT#: 4

SEX: Female

DAY ON TEST: 247

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611034

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Moderate
Control	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 265

TRT#: 4

SEX: Female

DAY ON TEST: 244

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611035

OBSERVATIONS

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

Control

Inflammation

Chronic Active, Mild

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 266

TRT#: 4

SEX: Female

DAY ON TEST: 113

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611036

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2,3-2+3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 267

TRT#: 4

SEX: Female

DAY ON TEST: 211

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611037

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 051117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 268

TRT#: 4

SEX: Female

DAY ON TEST: 259

DOSE: DMBA0.25 /TPA 1

DISP: Natural Death

HISTO: 8611038

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 269

TRT#: 4

SEX: Female

DAY ON TEST: 286

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611039

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control, Hair Follicle	Cyst	
Control, Hair Follicle	Cyst	
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 2-1,1,3-2+3 ]

[ Acanthosis TGLS = 2-1,1,3-2+3 ]

[ Acanthosis TGLS = 2-1,1,3-2+3 ]

[ Acanthosis TGLS = 2-1,1,3-2+3 ]

[ Inflammation TGLS = 2-1,1-3 ]

[ Inflammation TGLS = 2-1,1-3 ]

[ Inflammation TGLS = 2-1,1-3 ]

[ Inflammation TGLS = 2-1,1-3 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 270

TRT#: 4

SEX: Female

DAY ON TEST: 289

DOSE: DMBA0.25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611040

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 2-3 ]

[ Ulcer TGLS = 2-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 271

TRT#: 6

SEX: Female

DAY ON TEST: 363

DOSE: DMBA 2.5 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8610951

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	

Note: TGL#'S 1,2,3&4:SKIN NODULES,NOTED AT NECROPSY & TRIM,

Note: HISTOPATHOLOGICALLY.

Note: ARE FOCI OF MARKEDLY ACANTHOTIC AND INFLAMMED EPIDERMIS

Note: HISTOPATHOLOGICALLY.

Note: TGL#'S 1,2,3&4:SKIN NODULES,NOTED AT NECROPSY & TRIM,

Note: ARE FOCI OF MARKEDLY ACANTHOTIC AND INFLAMMED EPIDERMIS

[ Acanthosis TGLS = 1,2,3,4-3+4+5 ]

[ Acanthosis TGLS = 1,2,3,4-3+4+5 ]

[ Acanthosis TGLS = 1,2,3,4-3+4+5 ]

[ Acanthosis TGLS = 1,2,3,4-3+4+5 ]

[ Inflammation TGLS = 1,2,3,4-3+4+5 ]

[ Inflammation TGLS = 1,2,3,4-3+4+5 ]

[ Inflammation TGLS = 1,2,3,4-3+4+5 ]

[ Inflammation TGLS = 1,2,3,4-3+4+5 ]

[ Squamous Cell Papilloma TGLS = 5-5 ]

[ Squamous Cell Papilloma TGLS = 5-5 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 272

TRT#: 6

SEX: Female

DAY ON TEST: 307

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610952

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 2,3-2+3 ]

[ Acanthosis TGLS = 2,3-2+3 ]

[ Acanthosis TGLS = 2,3-2+3 ]

[ Acanthosis TGLS = 2,3-2+3 ]

[ Inflammation TGLS = 2,3-2+3 ]

[ Inflammation TGLS = 2,3-2+3 ]

[ Inflammation TGLS = 2,3-2+3 ]

[ Inflammation TGLS = 2,3-2+3 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Ulcer TGLS = 2,3+2+3 ]

[ Ulcer TGLS = 2,3+2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 273

TRT#: 6

SEX: Female

DAY ON TEST: 297

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610953

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Moderate
Control	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Carcinoma	Multiple
SOA-Mass	Squamous Cell Carcinoma	Multiple
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#3:SKIN CRUST,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: TGL#3:SKIN CRUST,NOTED AT NECROPSY,IS SQUAMOUS CELL

[ Squamous Cell Carcinoma TGLS = 2,3-2+4 ]

[ Squamous Cell Carcinoma TGLS = 2,3-2+4 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 274

TRT#: 6

SEX: Female

DAY ON TEST: 212

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610954

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Marked
Control	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	
Control	Ulcer	Multiple, Marked
Control	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

Note: TGL#1:SKIN MASS,CONTROL SKIN,NOTED AT NECROPSY,IS FOCUS

Note: OF MODERATELY ACANTHOTIC AND INFLAMMED EPIDERMIS

Note: HISTOPATHOLOGICALLY.

Note: HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN MASS,CONTROL SKIN,NOTED AT NECROPSY,IS FOCUS

Note: OF MODERATELY ACANTHOTIC AND INFLAMMED EPIDERMIS

[ Acanthosis TGLS = 1-3,2-2 ]

[ Acanthosis TGLS = 1-3,2-2 ]

[ Acanthosis TGLS = 1-3,2-2 ]

[ Acanthosis TGLS = 1-3,2-2 ]

[ Inflammation TGLS = 2-2,1-3 ]

[ Inflammation TGLS = 2-2,1-3 ]

[ Inflammation TGLS = 2-2,1-3 ]

[ Inflammation TGLS = 2-2,1-3 ]

[ Squamous Cell Papilloma TGLS = 3-4 ]

[ Squamous Cell Papilloma TGLS = 3-4 ]

[ Ulcer TGLS = 1-3,2-2 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 274

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 212

**DOSE:** DMBA 2.5 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610954

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**OBSERVATIONS**

[ Ulcer TGLS = 1-3,2-2 ]

[ Ulcer TGLS = 1-3,2-2 ]

[ Ulcer TGLS = 1-3,2-2 ]

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**PRIMARY CAUSE OF DEATH**

-

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Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 275

TRT#: 6

SEX: Female

DAY ON TEST: 303

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610955

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2,3,4-2+3+4+5 ]

[ Acanthosis TGLS = 1,2,3,4-2+3+4+5 ]

[ Acanthosis TGLS = 1,2,3,4-2+3+4+5 ]

[ Acanthosis TGLS = 1,2,3,4-2+3+4+5 ]

[ Inflammation TGLS = 1,2,3-3+4+5 ]

[ Inflammation TGLS = 1,2,3-3+4+5 ]

[ Inflammation TGLS = 1,2,3-3+4+5 ]

[ Inflammation TGLS = 1,2,3-3+4+5 ]

[ Ulcer TGLS = 1,2,3-3+4+5 ]

[ Ulcer TGLS = 1,2,3-3+4+5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 276

TRT#: 6

SEX: Female

DAY ON TEST: 330

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610956

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

Note: ACANTHOTIC EPIDERMIS HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF MODERATELY

Note: ACANTHOTIC EPIDERMIS HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF MODERATELY

[ Acanthosis TGLS = 1,3,4-2+3+5 ]

[ Acanthosis TGLS = 1,3,4-2+3+5 ]

[ Acanthosis TGLS = 1,3,4-2+3+5 ]

[ Acanthosis TGLS = 1,3,4-2+3+5 ]

[ Inflammation TGLS = 3-5 ]

[ Inflammation TGLS = 3-5 ]

[ Inflammation TGLS = 3-5 ]

[ Inflammation TGLS = 3-5 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

[ Ulcer TGLS = 3-5 ]

[ Ulcer TGLS = 3-5 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 276

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 330

**DOSE:** DMBA 2.5 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610956

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**OBSERVATIONS**

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 277

TRT#: 6

SEX: Female

DAY ON TEST: 363

DOSE: DMBA 2.5 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8610957

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Basal Cell Carcinoma

Basal Cell Carcinoma

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Basal Cell Carcinoma TGLS = 1-3,4-6 ]

[ Basal Cell Carcinoma TGLS = 1-3,4-6 ]

[ Squamous Cell Carcinoma TGLS = 1-3,4-6 ]

[ Squamous Cell Carcinoma TGLS = 1-3,4-6 ]

[ Squamous Cell Papilloma TGLS = 1,2,3-3+4+5 ]

[ Squamous Cell Papilloma TGLS = 1,2,3-3+4+5 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 278

TRT#: 6

SEX: Female

DAY ON TEST: 239

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610958

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Keratoacanthoma

Multiple

SOA-Mass

Keratoacanthoma

Multiple

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Keratoacanthoma TGLS = 1-3+4+5 ]

[ Keratoacanthoma TGLS = 1-3+4+5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY: MULTIPLE SKIN MASSES.

Animal Note: CAUSE OF MORBIDITY: MULTIPLE SKIN MASSES.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 279

TRT#: 6

SEX: Female

DAY ON TEST: 306

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610959

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 4,5-2+3 ]

[ Acanthosis TGLS = 4,5-2+3 ]

[ Acanthosis TGLS = 4,5-2+3 ]

[ Acanthosis TGLS = 4,5-2+3 ]

[ Inflammation TGLS = 4-3 ]

[ Inflammation TGLS = 4-3 ]

[ Squamous Cell Papilloma TGLS = 1,2,3-4+5+6 ]

[ Squamous Cell Papilloma TGLS = 1,2,3-4+5+6 ]

[ Ulcer TGLS = 4-3 ]

[ Ulcer TGLS = 4-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:40

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 280

TRT#: 6

SEX: Female

DAY ON TEST: 261

DOSE: DMBA 2.5 /TPA 1

DISP: Natural Death

HISTO: 8610960

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Moderate
Control	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Minimal
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: TGL#1:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

[ Squamous Cell Carcinoma TGLS = 1-2 ]

[ Squamous Cell Carcinoma TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESION.

Animal Note: CAUSE OF DEATH:SKIN LESION.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 281

TRT#: 6

SEX: Female

DAY ON TEST: 150

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610961

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
	Acanthosis	Moderate
	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked
	Ulcer	Marked
	Ulcer	Marked

Note: TGL#2-NCL:SKIN SECTION CONSIDERED TO BE WNL

Note: FOCI OF MARKEDLY ACANTHOTIC EPIDERMIS HISTOPATHOLOGICALLY.

Note: TGL#2-NCL:SKIN SECTION CONSIDERED TO BE WNL

Note: HISTOPATHOLOGICALLY.

Note: HISTOPATHOLOGICALLY.

Note: TGL#'S 3,4&5:SKIN MASSES,NOTED AT NECROPSY,ARE MULTIPLE

Note: FOCI OF MARKEDLY ACANTHOTIC EPIDERMIS HISTOPATHOLOGICALLY.

Note: TGL#'S 3,4&5:SKIN MASSES,NOTED AT NECROPSY,ARE MULTIPLE

[ Acanthosis TGLS = 1,3,4,5,6-3+4+6,7-5 ]

[ Acanthosis TGLS = 1,3,4,5,6-3+4+6,7-5 ]

[ Acanthosis TGLS = 1,3,4,5,6-3+4+6,7-5 ]

[ Acanthosis TGLS = 1,3,4,5,6-3+4+6,7-5 ]

[ Acanthosis TGLS = 1,3,4,5,6-3+4+6,7-5 ]

[ Acanthosis TGLS = 1,3,4,5,6-3+4+6,7-5 ]

[ Inflammation TGLS = 1,3,4,5,6-3+4+6,7-5 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 281

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 150

**DOSE:** DMBA 2.5 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610961

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**OBSERVATIONS**

[ Inflammation TGLS = 1,3,4,5,6-3+4+6,7-5 ]

[ Inflammation TGLS = 1,3,4,5,6-3+4+6,7-5 ]

[ Inflammation TGLS = 1,3,4,5,6-3+4+6,7-5 ]

[ Ulcer TGLS = 7-5,1,3,4,5,6-3+4+6 ]

[ Ulcer TGLS = 7-5,1,3,4,5,6-3+4+6 ]

[ Ulcer TGLS = 7-5,1,3,4,5,6-3+4+6 ]

[ Ulcer TGLS = 7-5,1,3,4,5,6-3+4+6 ]

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**PRIMARY CAUSE OF DEATH** -

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Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 282

TRT#: 6

SEX: Female

DAY ON TEST: 363

DOSE: DMBA 2.5 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8610962

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-Mass	Acanthosis	Moderate
SOA-Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 3-2 ]

[ Inflammation TGLS = 3-2 ]

[ Inflammation TGLS = 3-2 ]

[ Inflammation TGLS = 3-2 ]

[ Inflammation TGLS = 3-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 3-2 ]

[ Ulcer TGLS = 3-2 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 283

TRT#: 6

SEX: Female

DAY ON TEST: 274

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610963

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Minimal
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Minimal
SOA-Mass	Keratoacanthoma	
SOA-Mass	Keratoacanthoma	
SOA-Mass	Squamous Cell Carcinoma	Multiple
SOA-Mass	Squamous Cell Carcinoma	Multiple
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	

[ Acanthosis TGLS = 3,5-2+3 ]

[ Acanthosis TGLS = 3,5-2+3 ]

[ Acanthosis TGLS = 3,5-2+3 ]

[ Acanthosis TGLS = 3,5-2+3 ]

[ Inflammation TGLS = 3,5-2+3 ]

[ Inflammation TGLS = 3,5-2+3 ]

[ Inflammation TGLS = 3,5-2+3 ]

[ Inflammation TGLS = 3,5-2+3 ]

[ Keratoacanthoma TGLS = 4-5 ]

[ Keratoacanthoma TGLS = 4-5 ]

[ Squamous Cell Carcinoma TGLS = 1,2-4+5 ]

[ Squamous Cell Carcinoma TGLS = 1,2-4+5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 284

TRT#: 6

SEX: Female

DAY ON TEST: 303

DOSE: DMBA 2.5 /TPA 1

DISP: Natural Death

HISTO: 8610964

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Carcinoma TGLS = 2,3,7,9-3+4+5 ]

[ Squamous Cell Carcinoma TGLS = 2,3,7,9-3+4+5 ]

[ Squamous Cell Papilloma TGLS = 1,4,5,6,8-3+4+5 ]

[ Squamous Cell Papilloma TGLS = 1,4,5,6,8-3+4+5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN MASSES.

Animal Note: CAUSE OF DEATH:SKIN MASSES.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 285

TRT#: 6

SEX: Female

DAY ON TEST: 345

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610965

OBSERVATIONS

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

SOA-Mass

Squamous Cell Papilloma

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

Note: TGL#1:SKIN MASS,NOTED AT NECROPSY,IS FOCUS OF MARKEDLY

Note: INFLAMMED & ULCERATED EPIDERMIS COVERED WITH A SCAB

Note: INFLAMMED & ULCERATED EPIDERMIS COVERED WITH A SCAB

Note: TGL#1:SKIN MASS,NOTED AT NECROPSY,IS FOCUS OF MARKEDLY

Note: HISTOPATHOLOGICALLY.

Note: HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 1,3,4,5-2+3+5+6 ]

[ Acanthosis TGLS = 1,3,4,5-2+3+5+6 ]

[ Inflammation TGLS = 1,3,4-3+5+6 ]

[ Inflammation TGLS = 1,3,4-3+5+6 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

[ Ulcer TGLS = 1,3,4-3+5+6 ]

[ Ulcer TGLS = 1,3,4-3+5+6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 286

TRT#: 6

SEX: Female

DAY ON TEST: 223

DOSE: DMBA 2.5 /TPA 1

DISP: Natural Death

HISTO: 8610966

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESION.

Animal Note: CAUSE OF DEATH:SKIN LESION.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 287

TRT#: 6

SEX: Female

DAY ON TEST: 345

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610967

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

[ Ulcer TGLS = 2-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 288

TRT#: 6

SEX: Female

DAY ON TEST: 303

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610968

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:40

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 289

TRT#: 6

SEX: Female

DAY ON TEST: 289

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610969

OBSERVATIONS

\* Skin

Control	Acanthosis	Marked
Control	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control, Hair Follicle	Cyst	
Control, Hair Follicle	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Moderate
Control	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
Control	Ulcer	Marked
Control	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 4-3,2,3-2+4 ]

[ Acanthosis TGLS = 4-3,2,3-2+4 ]

[ Acanthosis TGLS = 4-3,2,3-2+4 ]

[ Acanthosis TGLS = 4-3,2,3-2+4 ]

[ Inflammation TGLS = 2,3-2+4,4-3 ]

[ Inflammation TGLS = 2,3-2+4,4-3 ]

[ Inflammation TGLS = 2,3-2+4,4-3 ]

[ Inflammation TGLS = 2,3-2+4,4-3 ]

[ Squamous Cell Carcinoma TGLS = 1-5 ]

[ Squamous Cell Carcinoma TGLS = 1-5 ]

[ Ulcer TGLS = 4-3,2-4 ]

[ Ulcer TGLS = 4-3,2-4 ]

[ Ulcer TGLS = 4-3,2-4 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 289

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 289

**DOSE:** DMBA 2.5 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610969

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**OBSERVATIONS**

[ Ulcer TGLS = 4-3,2-4 ]

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PRIMARY CAUSE OF DEATH -

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Animal Note: CAUSE OF MORBIDITY:SKIN LEIONS.

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Animal Note: CAUSE OF MORBIDITY:SKIN LEIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 290

TRT#: 6

SEX: Female

DAY ON TEST: 273

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610970

OBSERVATIONS

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

[ Acanthosis TGLS = 4-2 ]

[ Acanthosis TGLS = 4-2 ]

[ Acanthosis TGLS = 4-2 ]

[ Acanthosis TGLS = 4-2 ]

[ Squamous Cell Carcinoma TGLS = 2,3-3+4 ]

[ Squamous Cell Carcinoma TGLS = 2,3-3+4 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 291

TRT#: 6

SEX: Female

DAY ON TEST: 221

DOSE: DMBA 2.5 /TPA 1

DISP: Natural Death

HISTO: 8610971

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
	Acanthosis	Moderate
	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
	Ulcer	Marked
	Ulcer	Marked

[ Acanthosis TGLS = 3-5,2,4,5-2+3+6 ]

[ Acanthosis TGLS = 3-5,2,4,5-2+3+6 ]

[ Acanthosis TGLS = 3-5,2,4,5-2+3+6 ]

[ Acanthosis TGLS = 3-5,2,4,5-2+3+6 ]

[ Acanthosis TGLS = 3-5,2,4,5-2+3+6 ]

[ Acanthosis TGLS = 3-5,2,4,5-2+3+6 ]

[ Inflammation TGLS = 3-5,2,4,5-2+3+6 ]

[ Inflammation TGLS = 3-5,2,4,5-2+3+6 ]

[ Inflammation TGLS = 3-5,2,4,5-2+3+6 ]

[ Inflammation TGLS = 3-5,2,4,5-2+3+6 ]

[ Inflammation TGLS = 3-5,2,4,5-2+3+6 ]

[ Inflammation TGLS = 3-5,2,4,5-2+3+6 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 291

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 221

**DOSE:** DMBA 2.5 /TPA 1

**DISP:** Natural Death

**HISTO:** 8610971

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**OBSERVATIONS**

[ Squamous Cell Carcinoma TGLS = 1-4 ]  
[ Ulcer TGLS = 2-2,3-5 ]  
[ Ulcer TGLS = 2-2,3-5 ]  
[ Ulcer TGLS = 2-2,3-5 ]  
[ Ulcer TGLS = 2-2,3-5 ]

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**PRIMARY CAUSE OF DEATH** -

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Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 292

TRT#: 6

SEX: Female

DAY ON TEST: 311

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610972

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

[ Ulcer TGLS = 2-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 293

TRT#: 6

SEX: Female

DAY ON TEST: 363

DOSE: DMBA 2.5 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8610973

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 294

TRT#: 6

SEX: Female

DAY ON TEST: 169

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610974

OBSERVATIONS

\* Skin

Control	Acanthosis	Marked
Control	Acanthosis	Marked
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
	Acanthosis	Moderate
	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Marked
Control	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
Control	Ulcer	Marked
Control	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
	Ulcer	Marked
	Ulcer	Marked

[ Acanthosis TGLS = 4-5,1-3,2,3-2+4 ]

[ Acanthosis TGLS = 4-5,1-3,2,3-2+4 ]

[ Acanthosis TGLS = 4-5,1-3,2,3-2+4 ]

[ Acanthosis TGLS = 4-5,1-3,2,3-2+4 ]

[ Acanthosis TGLS = 4-5,1-3,2,3-2+4 ]

[ Acanthosis TGLS = 4-5,1-3,2,3-2+4 ]

[ Inflammation TGLS = 4-5,1-3,2,3-2+4 ]

[ Inflammation TGLS = 4-5,1-3,2,3-2+4 ]

[ Inflammation TGLS = 4-5,1-3,2,3-2+4 ]

[ Inflammation TGLS = 4-5,1-3,2,3-2+4 ]

[ Inflammation TGLS = 4-5,1-3,2,3-2+4 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 294

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 169

**DOSE:** DMBA 2.5 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610974

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**OBSERVATIONS**

[ Inflammation TGLS = 4-5,1-3,2,3-2+4 ]

[ Ulcer TGLS = 1-3,2-4,4-5 ]

[ Ulcer TGLS = 1-3,2-4,4-5 ]

[ Ulcer TGLS = 1-3,2-4,4-5 ]

[ Ulcer TGLS = 1-3,2-4,4-5 ]

[ Ulcer TGLS = 1-3,2-4,4-5 ]

[ Ulcer TGLS = 1-3,2-4,4-5 ]

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**PRIMARY CAUSE OF DEATH** -

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Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 295

TRT#: 6

SEX: Female

DAY ON TEST: 63

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610975

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2,3-2+3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 296

TRT#: 6

SEX: Female

DAY ON TEST: 253

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610975

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

[ Ulcer TGLS = 2-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 297

TRT#: 6

SEX: Female

DAY ON TEST: 363

DOSE: DMBA 2.5 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8610977

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate

Note: HISTOPATHOLOGICALLY.

Note: HISTOPATHOLOGICALLY.

Note: TGL#'S 1,3&4:SKIN MASSES & NODULE,NOTED AT NECROPSY &

Note: TRIM,ARE MULTIPLE FOCI OF MARKEDLY ACANTHOTIC EPIDERMIS

Note: TGL#'S 1,3&4:SKIN MASSES & NODULE,NOTED AT NECROPSY &

Note: TRIM,ARE MULTIPLE FOCI OF MARKEDLY ACANTHOTIC EPIDERMIS

[ Acanthosis TGLS = 1,2,3,4-2+3+4 ]

[ Acanthosis TGLS = 1,2,3,4-2+3+4 ]

[ Acanthosis TGLS = 1,2,3,4-2+3+4 ]

[ Acanthosis TGLS = 1,2,3,4-2+3+4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 298

TRT#: 6

SEX: Female

DAY ON TEST: 288

DOSE: DMBA 2.5 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610978

OBSERVATIONS

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 299

TRT#: 6

SEX: Female

DAY ON TEST: 363

DOSE: DMBA 2.5 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8610979

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

Note: MARKEDLY ACANTHOTIC EPIDERMIS HISTOPATHOLOGICALLY.

Note: TGL#'S 1&3:SKIN NODULES,NOTED AT NECROPSY,ARE FOCI OF

Note: TGL#'S 1&3:SKIN NODULES,NOTED AT NECROPSY,ARE FOCI OF

Note: MARKEDLY ACANTHOTIC EPIDERMIS HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Ulcer TGLS = 2-2 ]

[ Ulcer TGLS = 2-2 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 300

TRT#: 6

SEX: Female

DAY ON TEST: 257

DOSE: DMBA 2.5 /TPA 1

DISP: Natural Death

HISTO: 8610980

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 7-2 ]

[ Acanthosis TGLS = 7-2 ]

[ Acanthosis TGLS = 7-2 ]

[ Acanthosis TGLS = 7-2 ]

[ Inflammation TGLS = 7-2 ]

[ Inflammation TGLS = 7-2 ]

[ Inflammation TGLS = 7-2 ]

[ Inflammation TGLS = 7-2 ]

[ Squamous Cell Papilloma TGLS = 1,2,3,4,5,6-3+4+5+6 ]

[ Squamous Cell Papilloma TGLS = 1,2,3,4,5,6-3+4+5+6 ]

[ Ulcer TGLS = 7-2 ]

[ Ulcer TGLS = 7-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 301

TRT#: 8

SEX: Female

DAY ON TEST: 253

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610891

**OBSERVATIONS**

Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 1,3,4,5,6-3+5+6+7 ]

[ Squamous Cell Papilloma TGLS = 1,3,4,5,6-3+5+6+7 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN MASSES.

Animal Note: CAUSE OF MORBIDITY:SKIN MASSES.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 302

TRT#: 8

SEX: Female

DAY ON TEST: 261

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610892

OBSERVATIONS

Skin

Control

Acanthosis

Moderate

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 2,3-2+3 ]

[ Acanthosis TGLS = 2,3-2+3 ]

[ Acanthosis TGLS = 2,3-2+3 ]

[ Acanthosis TGLS = 2,3-2+3 ]

[ Inflammation TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Ulcer TGLS = 2-3 ]

[ Ulcer TGLS = 2-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 303

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 330

**DOSE:** DMBA 25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610893

**OBSERVATIONS**

Skin

Control

Acanthosis

Minimal

Control

Acanthosis

Minimal

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Carcinoma TGLS = 1,5-3+7 ]

[ Squamous Cell Carcinoma TGLS = 1,5-3+7 ]

[ Squamous Cell Papilloma TGLS = 2,3,4-4+5+6 ]

[ Squamous Cell Papilloma TGLS = 2,3,4-4+5+6 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: CAUSE OF MORBIDITY:SKIN MASSES.

Animal Note: CAUSE OF MORBIDITY:SKIN MASSES.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:40

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 304

TRT#: 8

SEX: Female

DAY ON TEST: 323

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610894

OBSERVATIONS

Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 5-2 ]

[ Acanthosis TGLS = 5-2 ]

[ Acanthosis TGLS = 5-2 ]

[ Acanthosis TGLS = 5-2 ]

[ Inflammation TGLS = 5-2 ]

[ Inflammation TGLS = 5-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 2,3,4-4,5,6 ]

[ Squamous Cell Papilloma TGLS = 2,3,4-4,5,6 ]

[ Ulcer TGLS = 5-2 ]

[ Ulcer TGLS = 5-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN MASSES.

Animal Note: CAUSE OF MORBIDITY:SKIN MASSES.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 305

TRT#: 8

SEX: Female

DAY ON TEST: 280

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610895

OBSERVATIONS

Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

Inflammation

Chronic Active, Marked

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN CRUST,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: TGL#2:SKIN CRUST,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

[ Inflammation TGLS = 3-5 ]

[ Inflammation TGLS = 3-5 ]

[ Inflammation TGLS = 3-5 ]

[ Inflammation TGLS = 3-5 ]

[ Squamous Cell Carcinoma TGLS = 1,2-3+4 ]

[ Squamous Cell Carcinoma TGLS = 1,2-3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 306

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 322

**DOSE:** DMBA 25 /TPA 1

**DISP:** Natural Death

**HISTO:** 8610896

---

**OBSERVATIONS**

Skin

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1,4,6-3+4+6+7 ]

[ Squamous Cell Papilloma TGLS = 1,4,6-3+4+6+7 ]

---

**PRIMARY CAUSE OF DEATH**

-

Animal Note: CAUSE OF DEATH:SKIN MASSES.

Animal Note: CAUSE OF DEATH:SKIN MASSES.

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 307

TRT#: 8

SEX: Female

DAY ON TEST: 198

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610897

**OBSERVATIONS**

Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 1,2-3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 308

TRT#: 8

SEX: Female

DAY ON TEST: 183

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610898

OBSERVATIONS

Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Acanthosis

Marked

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

Inflammation

Chronic Active, Marked

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Papilloma

SOA-Mass

Squamous Cell Papilloma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

Ulcer

Marked

Ulcer

Marked

[ Acanthosis TGLS = 2,3-2+4,4-5 ]

[ Acanthosis TGLS = 2,3-2+4,4-5 ]

[ Acanthosis TGLS = 2,3-2+4,4-5 ]

[ Acanthosis TGLS = 2,3-2+4,4-5 ]

[ Inflammation TGLS = 2-4,4-5 ]

[ Inflammation TGLS = 2-4,4-5 ]

[ Inflammation TGLS = 2-4,4-5 ]

[ Inflammation TGLS = 2-4,4-5 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Ulcer TGLS = 2-4,4-5 ]

[ Ulcer TGLS = 2-4,4-5 ]

[ Ulcer TGLS = 2-4,4-5 ]

[ Ulcer TGLS = 2-4,4-5 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 308

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 183

**DOSE:** DMBA 25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610898

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**OBSERVATIONS**

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 309

TRT#: 8

SEX: Female

DAY ON TEST: 226

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610899

OBSERVATIONS

Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

Note: HISTOPATHOLOGICALLY.

Note: HISTOPATHOLOGICALLY.

Note: INFLAMMED & ULCERATED EPIDERMIS COVERED WITH A SCAB

Note: TGL#2:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF

Note: TGL#2:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF

Note: INFLAMMED & ULCERATED EPIDERMIS COVERED WITH A SCAB

[ Acanthosis TGLS = 2,3,4,5,6,7-2+3+4+5+6 ]

[ Acanthosis TGLS = 2,3,4,5,6,7-2+3+4+5+6 ]

[ Acanthosis TGLS = 2,3,4,5,6,7-2+3+4+5+6 ]

[ Acanthosis TGLS = 2,3,4,5,6,7-2+3+4+5+6 ]

[ Inflammation TGLS = 2,3,4,5,6-2+3+4+5+6 ]

[ Inflammation TGLS = 2,3,4,5,6-2+3+4+5+6 ]

[ Inflammation TGLS = 2,3,4,5,6-2+3+4+5+6 ]

[ Inflammation TGLS = 2,3,4,5,6-2+3+4+5+6 ]

[ Squamous Cell Papilloma TGLS = 1-4 ]

[ Squamous Cell Papilloma TGLS = 1-4 ]

[ Ulcer TGLS = 2,3,4,5,6-2+3+4+5+6 ]

[ Ulcer TGLS = 2,3,4,5,6-2+3+4+5+6 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 309

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 226

**DOSE:** DMBA 25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610899

---

**OBSERVATIONS**

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

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Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:40

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 310

TRT#: 8

SEX: Female

DAY ON TEST: 199

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610900

OBSERVATIONS

Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Moderate
Control	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

Note: TGL#2:SKIN CRUST,NOTED AT NECROPSY,IS SQUAMOUS

Note: PAPILOMA HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN CRUST,NOTED AT NECROPSY,IS SQUAMOUS

Note: PAPILOMA HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Squamous Cell Papilloma TGLS = 2-3 ]

[ Squamous Cell Papilloma TGLS = 2-3 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 311

TRT#: 8

DOSE: DMBA 25 /TPA 1

SEX: Female

DISP: Natural Death

DAY ON TEST: 303

HISTO: 8610901

OBSERVATIONS

Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Moderate
Control	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	Multiple
SOA-Mass	Squamous Cell Carcinoma	Multiple
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Inflammation TGLS = 3-2 ]

[ Inflammation TGLS = 3-2 ]

[ Inflammation TGLS = 3-2 ]

[ Inflammation TGLS = 3-2 ]

[ Squamous Cell Carcinoma TGLS = 1,2-4+5 ]

[ Squamous Cell Carcinoma TGLS = 1,2-4+5 ]

[ Squamous Cell Papilloma TGLS = 4-3 ]

[ Squamous Cell Papilloma TGLS = 4-3 ]

[ Ulcer TGLS = 3-2 ]

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 311

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 303

**DOSE:** DMBA 25 /TPA 1

**DISP:** Natural Death

**HISTO:** 8610901

---

**OBSERVATIONS**

[ Ulcer TGLS = 3-2 ]

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PRIMARY CAUSE OF DEATH -

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Animal Note: CAUSE OF DEATH:UNDETERMINED.

Animal Note: CAUSE OF DEATH:UNDETERMINED.

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 312

TRT#: 8

SEX: Female

DAY ON TEST: 272

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610902

OBSERVATIONS

Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 4-2 ]

[ Acanthosis TGLS = 4-2 ]

[ Acanthosis TGLS = 4-2 ]

[ Acanthosis TGLS = 4-2 ]

[ Inflammation TGLS = 4-2 ]

[ Inflammation TGLS = 4-2 ]

[ Inflammation TGLS = 4-2 ]

[ Inflammation TGLS = 4-2 ]

[ Squamous Cell Papilloma TGLS = 1,2,3-3+4+5 ]

[ Squamous Cell Papilloma TGLS = 1,2,3-3+4+5 ]

[ Ulcer TGLS = 4-2 ]

[ Ulcer TGLS = 4-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 313

TRT#: 8

SEX: Female

DAY ON TEST: 150

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610903

**OBSERVATIONS**

Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 2,3-2+4 ]

[ Acanthosis TGLS = 2,3-2+4 ]

[ Inflammation TGLS = 2,3-2+4 ]

[ Inflammation TGLS = 2,3-2+4 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2,3-2+4 ]

[ Ulcer TGLS = 2,3-2+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 314

TRT#: 8

SEX: Female

DAY ON TEST: 198

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610904

OBSERVATIONS

Skin

Control

Acanthosis

Moderate

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

Note: TGL#1:SKIN MASS,NOTED AT NECROPSY,IS FOCUS OF MARKEDLY

Note: INFLAMMED AND ULCERATED EPIDERMIS COVERED WITH A

Note: TO BE NOT PRESENT AT TRIM.

Note: TGL#2-NST:SKIN MASS,FACE,NOTED AT NECROPSY,REPORTED

Note: TGL#1:SKIN MASS,NOTED AT NECROPSY,IS FOCUS OF MARKEDLY

Note: TGL#2-NST:SKIN MASS,FACE,NOTED AT NECROPSY,REPORTED

Note: SCAB HISTOPATHOLOGICALLY.

Note: SCAB HISTOPATHOLOGICALLY.

Note: INFLAMMED AND ULCERATED EPIDERMIS COVERED WITH A

Note: TO BE NOT PRESENT AT TRIM.

[ Acanthosis TGLS = 1,3-3+4 ]

[ Acanthosis TGLS = 1,3-3+4 ]

[ Acanthosis TGLS = 1,3-3+4 ]

[ Acanthosis TGLS = 1,3-3+4 ]

[ Inflammation TGLS = 1,4,5-3+5+6 ]

[ Inflammation TGLS = 1,4,5-3+5+6 ]

[ Ulcer TGLS = 1,4,5-3+5+6 ]

[ Ulcer TGLS = 1,4,5-3+5+6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 315

TRT#: 8

SEX: Female

DAY ON TEST: 307

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610905

**OBSERVATIONS**

Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-Mass

Keratoacanthoma

SOA-Mass

Keratoacanthoma

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Keratoacanthoma TGLS = 3-5 ]

[ Keratoacanthoma TGLS = 3-5 ]

[ Squamous Cell Carcinoma TGLS = 1,2,5-3+4+6 ]

[ Squamous Cell Carcinoma TGLS = 1,2,5-3+4+6 ]

[ Squamous Cell Papilloma TGLS = 4,5-5+6 ]

[ Squamous Cell Papilloma TGLS = 4,5-5+6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 316

TRT#: 8

SEX: Female

DAY ON TEST: 272

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610906

OBSERVATIONS

Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 4-4 ]

[ Acanthosis TGLS = 4-4 ]

[ Acanthosis TGLS = 4-4 ]

[ Acanthosis TGLS = 4-4 ]

[ Inflammation TGLS = 4-4 ]

[ Inflammation TGLS = 4-4 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 2,3-3 ]

[ Squamous Cell Papilloma TGLS = 2,3-3 ]

[ Ulcer TGLS = 4-4 ]

[ Ulcer TGLS = 4-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 317

TRT#: 8

SEX: Female

DAY ON TEST: 211

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610907

OBSERVATIONS

Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

Note: SQUAMOUS CELL CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#2:ONE OF THE SKIN LESIONS,NOTED AT NECROPSY,IS A

Note: SQUAMOUS CELL CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#2:ONE OF THE SKIN LESIONS,NOTED AT NECROPSY,IS A

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Inflammation TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 2-2 ]

[ Squamous Cell Carcinoma TGLS = 2-2 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: INIT/PROMOT

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

Time Report Requested: 18:09:40

Route: SKIN APPLICATION|DERMAL,SOLUTION

CAS Number: INIT/PROM

First Dose M/F: NA / NA

Species/Strain: Mouse/SENCAR

Lab: BAT

ANIMAL ID: 318

TRT#: 8

SEX: Female

DAY ON TEST: 251

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610908

OBSERVATIONS

Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

Note: KERATIN-FILLED INFLAMMATORY CYST HISTOPATHOLOGICALLY.

Note: TGL#4:SKIN MASS,NOTED AT TRIM,IS A LARGE,SUBCUTANEOUS

Note: TGL#4:SKIN MASS,NOTED AT TRIM,IS A LARGE,SUBCUTANEOUS

Note: KERATIN-FILLED INFLAMMATORY CYST HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 1,3-2+4 ]

[ Acanthosis TGLS = 1,3-2+4 ]

[ Inflammation TGLS = 1,3,4-2+4+5 ]

[ Inflammation TGLS = 1,3,4-2+4+5 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 319

TRT#: 8

SEX: Female

DAY ON TEST: 246

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610909

**OBSERVATIONS**

Skin

Control

Acanthosis

Minimal

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

Note: SQUAMOUS CELL CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#1:PORTION OF SKIN DEFORMITY,NOTED AT NECROPSY,IS

Note: TGL#1:PORTION OF SKIN DEFORMITY,NOTED AT NECROPSY,IS

Note: SQUAMOUS CELL CARCINOMA HISTOPATHOLOGICALLY.

[ Squamous Cell Carcinoma TGLS = 1-2 ]

[ Squamous Cell Carcinoma TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 320

TRT#: 8

SEX: Female

DAY ON TEST: 271

DOSE: DMBA 25 /TPA 1

DISP: Natural Death

HISTO: 8610910

OBSERVATIONS

Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

[ Ulcer TGLS = 2-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 321

TRT#: 8

SEX: Female

DAY ON TEST: 296

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610911

OBSERVATIONS

Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	Multiple
SOA-Mass	Squamous Cell Carcinoma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 5,6-2+3 ]

[ Acanthosis TGLS = 5,6-2+3 ]

[ Acanthosis TGLS = 5,6-2+3 ]

[ Acanthosis TGLS = 5,6-2+3 ]

[ Inflammation TGLS = 6-3 ]

[ Inflammation TGLS = 6-3 ]

[ Squamous Cell Carcinoma TGLS = 2,4-4+5 ]

[ Squamous Cell Carcinoma TGLS = 2,4-4+5 ]

[ Squamous Cell Papilloma TGLS = 1,3-6+7 ]

[ Squamous Cell Papilloma TGLS = 1,3-6+7 ]

[ Ulcer TGLS = 6-3 ]

[ Ulcer TGLS = 6-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 322

TRT#: 8

SEX: Female

DAY ON TEST: 288

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610912

**OBSERVATIONS**

Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2,3-2+3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 323

TRT#: 8

SEX: Female

DAY ON TEST: 278

DOSE: DMBA 25 /TPA 1

DISP: Natural Death

HISTO: 8610913

OBSERVATIONS

Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

SOA-Mass

Squamous Cell Papilloma

Note: HISTOPATHOLOGICALLY.

Note: TGL#5-NCL:SKIN NODULE,NOTED AT NECROPSY,NOT SEEN

Note: HISTOPATHOLOGICALLY.

Note: TGL#5-NCL:SKIN NODULE,NOTED AT NECROPSY,NOT SEEN

[ Squamous Cell Carcinoma TGLS = 1,3-3+5 ]

[ Squamous Cell Carcinoma TGLS = 1,3-3+5 ]

[ Squamous Cell Papilloma TGLS = 4-6 ]

[ Squamous Cell Papilloma TGLS = 4-6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 324

TRT#: 8

SEX: Female

DAY ON TEST: 193

DOSE: DMBA 25 /TPA 1

DISP: Natural Death

HISTO: 8610914

OBSERVATIONS

Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Mild

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

Note: TGL#4:SKIN MASS,NOTED AT NECROPSY,IS A FOCUS OF

Note: INFLAMMED & ULCERATED EPIDERMIS COVERED WITH A SCAB

Note: HISTOPATHOLOGICALLY.

Note: PATHOLOGICALLY.

Note: MODERATELY ACANTHOTIC & INFLAMMED EPIDERMIS HISTO-

Note: TGL#1:SKIN NODULE,NOTED AT NECROPSY,IS A FOCUS OF

Note: HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN NODULE,NOTED AT NECROPSY,IS A FOCUS OF

Note: MODERATELY ACANTHOTIC & INFLAMMED EPIDERMIS HISTO-

Note: PATHOLOGICALLY.

Note: TGL#4:SKIN MASS,NOTED AT NECROPSY,IS A FOCUS OF

Note: INFLAMMED & ULCERATED EPIDERMIS COVERED WITH A SCAB

[ Acanthosis TGLS = 1,3-3+5 ]

[ Acanthosis TGLS = 1,3-3+5 ]

[ Acanthosis TGLS = 1,3-3+5 ]

[ Acanthosis TGLS = 1,3-3+5 ]

[ Inflammation TGLS = 1,2,3,4-2+3+4+5 ]

[ Inflammation TGLS = 1,2,3,4-2+3+4+5 ]

[ Inflammation TGLS = 1,2,3,4-2+3+4+5 ]

[ Inflammation TGLS = 1,2,3,4-2+3+4+5 ]

[ Ulcer TGLS = 1,2,3,4-2+3+4+5 ]

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 324

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 193

**DOSE:** DMBA 25 /TPA 1

**DISP:** Natural Death

**HISTO:** 8610914

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**OBSERVATIONS**

[ Ulcer TGLS = 1,2,3,4-2+3+4+5 ]

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PRIMARY CAUSE OF DEATH -

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Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 325

TRT#: 8

SEX: Female

DAY ON TEST: 217

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610915

OBSERVATIONS

Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

Control

Inflammation

Chronic Active, Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: TGL#1:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF

Note: TGL#2:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: MARKEDLY ACANTHOTIC EPIDERMIS HISTOPATHOLOGICALLY.

Note: MARKEDLY ACANTHOTIC EPIDERMIS HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF

Note: CARCINOMA HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 1,3-3+4 ]

[ Acanthosis TGLS = 1,3-3+4 ]

[ Acanthosis TGLS = 1,3-3+4 ]

[ Acanthosis TGLS = 1,3-3+4 ]

[ Inflammation TGLS = 1,3-3+4 ]

[ Inflammation TGLS = 1,3-3+4 ]

[ Inflammation TGLS = 1,3-3+4 ]

[ Inflammation TGLS = 1,3-3+4 ]

[ Squamous Cell Carcinoma TGLS = 2-2 ]

[ Squamous Cell Carcinoma TGLS = 2-2 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:09:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 325

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 217

**DOSE:** DMBA 25 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8610915

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**OBSERVATIONS**

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 326

TRT#: 8

SEX: Female

DAY ON TEST: 103

DOSE: DMBA 25 /TPA 1

DISP: Natural Death

HISTO: 8610916

**OBSERVATIONS**

Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 2,4-3+4 ]

[ Acanthosis TGLS = 2,4-3+4 ]

[ Inflammation TGLS = 1,3,4-2+4+5 ]

[ Inflammation TGLS = 1,3,4-2+4+5 ]

[ Ulcer TGLS = 1,2,3,4-2+3+4+5 ]

[ Ulcer TGLS = 1,2,3,4-2+3+4+5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

Animal Note: CAUSE OF DEATH:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 327

TRT#: 8

SEX: Female

DAY ON TEST: 227

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610917

OBSERVATIONS

Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Multiple, Marked
SOA-No Mass	Ulcer	Multiple, Marked

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Inflammation TGLS = 2-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

[ Ulcer TGLS = 2-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 328

TRT#: 8

SEX: Female

DAY ON TEST: 261

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610918

OBSERVATIONS

Skin

SOA-Mass

Acanthosis

Moderate

SOA-Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

Note: TGL#3:SKIN NODULE,NOTED AT TRIM,IS A FOCUS OF MARKEDLY

Note: TGL#3:SKIN NODULE,NOTED AT TRIM,IS A FOCUS OF MARKEDLY

Note: ACANTHOTIC & INFLAMMED EPIDERMIS COVERED WITH A SCAB

Note: ACANTHOTIC & INFLAMMED EPIDERMIS COVERED WITH A SCAB

Note: HISTOPATHOLOGICALLY.

Note: HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 3-5 ]

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 3-5 ]

[ Acanthosis TGLS = 2-4 ]

[ Inflammation TGLS = 1,3-3+5 ]

[ Inflammation TGLS = 1,3-3+5 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 329

TRT#: 8

SEX: Female

DAY ON TEST: 155

DOSE: DMBA 25 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8610919

OBSERVATIONS

Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-No Mass

Ulcer

Multiple, Marked

SOA-No Mass

Ulcer

Multiple, Marked

Note: TGL#2:SKIN LESION:NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#2:SKIN LESION:NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 3-5 ]

[ Acanthosis TGLS = 3-5 ]

[ Acanthosis TGLS = 3-5 ]

[ Acanthosis TGLS = 3-5 ]

[ Inflammation TGLS = 3-5 ]

[ Inflammation TGLS = 3-5 ]

[ Squamous Cell Carcinoma TGLS = 1,2-3+4 ]

[ Squamous Cell Carcinoma TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 3-5 ]

[ Ulcer TGLS = 3-5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 330

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** DMBA 25 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8610920

---

**OBSERVATIONS**

Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

Note: TGL#1:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN LESION,NOTED AT NECROPSY,IS SQUAMOUS CELL

Note: CARCINOMA HISTOPATHOLOGICALLY.

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 331

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 345

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610831

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Mild

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: CAUSE OF MORBIDITY:UNDETERMINED.

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 332

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 134

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610832

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 333

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610833

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Papilloma

[ Squamous Cell Papilloma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 334

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 198

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610834

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESION.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 335

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 97

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610835

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Alopecia

Cyst

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Alopecia TGLS = 3,4-4+5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 336

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610836

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 337

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610837

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 338

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610838

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Inflammation TGLS = 2-4 ]

[ Inflammation TGLS = 2-4 ]

[ Ulcer TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 339

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 77

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610839

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Ulcer TGLS = 2-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

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**Animal Note:** CAUSE OF MORBIDITY:SKIN LESION.

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 340

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 120

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610840

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2-3+4 ]

[ Acanthosis TGLS = 1,2-3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 1,2-3+4 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

**Animal Note:** CAUSE OF MORBIDITY:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 341

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 354

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610841

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 342

TRT#: 10

SEX: Female

DAY ON TEST: 183

DOSE: TPA 1/ COMPLETE

DISP: Moribund Sacrifice

HISTO: 8610842

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Acanthosis

Mild

Control

Cyst

SOA-No Mass

Inflammation

Chronic Active, Mild

Inflammation

Chronic Active, Marked

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

Ulcer

Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 3-4,1,2-2+3 ]

[ Inflammation TGLS = 3-4,1,2-2+3 ]

[ Inflammation TGLS = 3-4,1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3,3-4 ]

[ Ulcer TGLS = 1,2-2+3,3-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 343

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610843

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 344

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 126

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610844

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Inflammation TGLS = 2-2 ]

[ Ulcer TGLS = 1,2-2+3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

**Animal Note:** CAUSE OF MORBIDITY:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 345

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 169

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610845

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Marked

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

**Animal Note:** CAUSE OF MORBIDITY:SKIN LESION.

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 346

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 293

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610846

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

Note: TGL#'S 1,2&3:SKIN MASS & NODULES,NOTED AT NECROPSY,ARE

Note: MULTIPLE FOCI OF MARKED ACANTHOSIS HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 1,2,3-3+4+5 ]

[ Acanthosis TGLS = 1,2,3-3+4+5 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

**Animal Note:** CAUSE OF MORBIDITY:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 051117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 347

TRT#: 10

SEX: Female

DAY ON TEST: 227

DOSE: TPA 1/ COMPLETE

DISP: Moribund Sacrifice

HISTO: 8610847

**OBSERVATIONS**

\* Skin

Control  
SOA-No Mass  
Hair Follicle, SOA-No Mass  
Control  
SOA-No Mass  
SOA-No Mass

Acanthosis  
Acanthosis  
Cyst  
Inflammation  
Inflammation  
Ulcer

Moderate  
Marked  
Chronic Active, Mild  
Chronic Active, Marked  
Multiple, Marked

Note: TGL#1:SKIN MASS,NOTED AT NECROPSY,IS LARGE AREA OF  
Note: MARKED ACANTHOSIS HISTOPATHOLOGICALLY.

- [ Acanthosis TGLS = 1,2,3-2+3+4 ]
- [ Acanthosis TGLS = 1,2,3-2+3+4 ]
- [ Inflammation TGLS = 1,2,3-2+3+4 ]
- [ Inflammation TGLS = 1,2,3-2+3+4 ]
- [ Ulcer TGLS = 1,2,3-2+3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 348

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 202

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610848

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 4-5,1,2,3-2+3+4 ]

[ Acanthosis TGLS = 4-5,1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4,4-5 ]

[ Inflammation TGLS = 1,2,3-2+3+4,4-5 ]

[ Ulcer TGLS = 2,3-3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 349

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610849

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Marked

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

Note: MARKED ACANTHOSIS HISTOPATHOLOGICALLY.

Note: TGL#1:SKIN NODULE,NOTED AT NECROPSY,IS FOCUS OF

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 350

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610850

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 351

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 106

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610851

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: CAUSE OF MORBIDITY:UNDETERMINED.

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 352

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610852

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 353

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 224

**DOSE:** TPA 1/ COMPLETE

**DISP:** Natural Death

**HISTO:** 8610853

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

Note: TGL# 2&3:SKIN MASS & NODULE,NOTED AT NECROPSY,ARE

Note: MULTIPLE FOCI OF MARKED ACANTHOSIS HISTOPATHOLOGICALLY.

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 3-4 ]

[ Ulcer TGLS = 3-4 ]

---

**PRIMARY CAUSE OF DEATH**

-

**Animal Note:** CAUSE OF DEATH:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 354

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 133

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610854

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Marked

Control, Hair Follicle

Cyst

Hair Follicle, SOA-No Mass

Cyst

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

Note: ULCERATED EPIDERMIS HISTOPATHOLOGICALLY.

Note: TGL#S 1&2:SKIN MASS & NODULE,NOTED AT NECROPSY, ARE

Note: MULTIPLE FOCI OF MARKEDLY ACANTHOTIC, INFLAMMED AND

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Acanthosis TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Inflammation TGLS = 1,2,3-2+3+4 ]

[ Ulcer TGLS = 1,2,3-2+3+4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 355

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 240

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610855

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 1,2-2+3 ]

---

**PRIMARY CAUSE OF DEATH**

-

**Animal Note:** CAUSE OF MORBIDITY:SKIN LESIONS.

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 356

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610856

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

[ Acanthosis TGLS = 1-3 ]

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PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 357

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 133

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610857

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2-2+3 ]

[ Acanthosis TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Inflammation TGLS = 1,2-2+3 ]

[ Ulcer TGLS = 1,2-2+3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF MORBIDITY:SKIN LESIONS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 358

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610858

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 359

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** TPA 1/ COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 8610859

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Multiple, Marked

[ Acanthosis TGLS = 1,2-3+4 ]

[ Acanthosis TGLS = 1,2-3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Inflammation TGLS = 1,2-3+4 ]

[ Ulcer TGLS = 1,2-3+4 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 360

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 251

**DOSE:** TPA 1/ COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 8610860

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Marked

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 1,2-3+4 ]

[ Acanthosis TGLS = 1,2-3+4 ]

[ Inflammation TGLS = 2-3 ]

[ Ulcer TGLS = 2-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

**Animal Note:** CAUSE OF MORBIDITY:SKIN LESIONS.

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 361

TRT#: 12

SEX: Female

DAY ON TEST: 316

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611131

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESION

Animal Note: MORIBUND SAC DUE TO SKIN LESION

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 362

TRT#: 12

SEX: Female

DAY ON TEST: 160

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611132

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 363

TRT#: 12

SEX: Female

DAY ON TEST: 363

DOSE: MNNG 100 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611133

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

Control

Inflammation

Chronic Active, Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

[ Cyst TGSL = 1-2 ]

[ Cyst TGSL = 1-2 ]

[ Inflammation TGSL = 1-2 ]

[ Inflammation TGSL = 1-2 ]

[ Inflammation TGSL = 1-2 ]

[ Inflammation TGSL = 1-2 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 364

TRT#: 12

SEX: Female

DAY ON TEST: 363

DOSE: MNNG 100 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611134

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple

[ Acanthosis TGLS = 3-4 ]

[ Acanthosis TGLS = 3-4 ]

[ Acanthosis TGLS = 3-4 ]

[ Acanthosis TGLS = 3-4 ]

[ Squamous Cell Papilloma TGLS = 1-3,2-4 ]

[ Squamous Cell Papilloma TGLS = 1-3,2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 365

TRT#: 12

SEX: Female

DAY ON TEST: 161

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611135

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 366

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8611136

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Moderate

SOA-No Mass

Ulcer

Moderate

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 367

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8611137

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Papilloma TGLS = 1-3,2-4,3-5 ]

[ Squamous Cell Papilloma TGLS = 1-3,2-4,3-5 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 368

TRT#: 12

SEX: Female

DAY ON TEST: 363

DOSE: MNNG 100 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611138

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Moderate
SOA-No Mass	Ulcer	Moderate

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

[ Ulcer TGLS = 2-2 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 369

TRT#: 12

SEX: Female

DAY ON TEST: 318

DOSE: MNNG 100 /TPA 1

DISP: Natural Death

HISTO: 8611139

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Marked

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 6-2,2-5 ]

[ Acanthosis TGLS = 6-2,2-5 ]

[ Inflammation TGLS = 1-7 ]

[ Inflammation TGLS = 1-7 ]

[ Inflammation TGLS = 1-7 ]

[ Inflammation TGLS = 1-7 ]

[ Ulcer TGLS = 3-3,4-4,5-6 ]

[ Ulcer TGLS = 3-3,4-4,5-6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH DUE TO SKIN LESIONS

Animal Note: CAUSE OF DEATH DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 370

TRT#: 12

SEX: Female

DAY ON TEST: 363

DOSE: MNNG 100 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611140

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

SOA-Mass

Squamous Cell Papilloma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Cyst TGLS = 1-4 ]

[ Cyst TGLS = 1-4 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Squamous Cell Papilloma TGLS = 2-3 ]

[ Squamous Cell Papilloma TGLS = 2-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 371

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8611141

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Papilloma TGLS = 1-3,2-4 ]

[ Squamous Cell Papilloma TGLS = 1-3,2-4 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 372

TRT#: 12

SEX: Female

DAY ON TEST: 267

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611142

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

Alopecia

Alopecia

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 4-3,2-4 ]

[ Acanthosis TGLS = 4-3,2-4 ]

[ Alopecia TGLS = 3-6 ]

[ Alopecia TGLS = 3-6 ]

[ Ulcer TGLS = 1-5 ]

[ Ulcer TGLS = 1-5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 373

TRT#: 12

SEX: Female

DAY ON TEST: 269

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611143

**OBSERVATIONS**

\* Skin

SOA-Mass

Acanthosis

Mild

SOA-Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 2-2,3-4 ]

[ Acanthosis TGLS = 4-3 ]

[ Acanthosis TGLS = 2-2,3-4 ]

[ Acanthosis TGLS = 4-3 ]

[ Ulcer TGLS = 1-5,5-6 ]

[ Ulcer TGLS = 1-5,5-6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 374

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 340

**DOSE:** MNNG 100 /TPA 1

**DISP:** Natural Death

**HISTO:** 8611144

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**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Papilloma TGLS = 1-3,2-4,3-5,4-6 ]

[ Squamous Cell Papilloma TGLS = 1-3,2-4,3-5,4-6 ]

---

**PRIMARY CAUSE OF DEATH**

-

Animal Note: CAUSE OF DEATH UNDETERMINED

Animal Note: CAUSE OF DEATH UNDETERMINED

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 375

TRT#: 12

SEX: Female

DAY ON TEST: 259

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611145

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 1-3,3-2 ]

[ Acanthosis TGLS = 1-3,3-2 ]

[ Acanthosis TGLS = 1-3,3-2 ]

[ Acanthosis TGLS = 1-3,3-2 ]

[ Ulcer TGLS = 2-4 ]

[ Ulcer TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 376

TRT#: 12

SEX: Female

DAY ON TEST: 363

DOSE: MNNG 100 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611146

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

Control

Inflammation

Chronic Active, Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Acanthosis TGLS = 3-5 ]

[ Acanthosis TGLS = 3-5 ]

[ Acanthosis TGLS = 3-5 ]

[ Acanthosis TGLS = 3-5 ]

[ Squamous Cell Papilloma TGLS = 1-3,2-4,4-6 ]

[ Squamous Cell Papilloma TGLS = 1-3,2-4,4-6 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 377

TRT#: 12

SEX: Female

DAY ON TEST: 212

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611147

OBSERVATIONS

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 3-4,2-5,4-6 ]

[ Ulcer TGLS = 3-4,2-5,4-6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 378

TRT#: 12

SEX: Female

DAY ON TEST: 363

DOSE: MNNG 100 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611148

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 379

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 133

**DOSE:** MNNG 100 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611149

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Ulcer TGLS = 1-3,2-2 ]

[ Ulcer TGLS = 1-3,2-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 380

TRT#: 12

SEX: Female

DAY ON TEST: 363

DOSE: MNNG 100 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611150

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 381

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8611151

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**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Papilloma TGLS = 1-3,2-4,3-5 ]

[ Squamous Cell Papilloma TGLS = 1-3,2-4,3-5 ]

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 382

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 108

**DOSE:** MNNG 100 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611152

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 383

TRT#: 12

SEX: Female

DAY ON TEST: 260

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611153

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Marked
	Inflammation	Chronic Active, Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
	Ulcer	Marked
	Ulcer	Marked

[ Ulcer TGLS = 1-3,2-2 ]

[ Ulcer TGLS = 1-3,2-2 ]

[ Ulcer TGLS = 1-3,2-2 ]

[ Ulcer TGLS = 1-3,2-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 384

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8611154

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 385

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 160

**DOSE:** MNNG 100 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611155

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 386

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 233

**DOSE:** MNNG 100 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611156

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

Control

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Ulcer TGLS = 3-2,1-3,2-4 ]

[ Ulcer TGLS = 3-2,1-3,2-4 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 387

TRT#: 12

SEX: Female

DAY ON TEST: 289

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611157

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-No Mass	Inflammation	Chronic Active, Marked
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	
SOA-No Mass	Ulcer	Moderate
SOA-No Mass	Ulcer	Moderate

[ Squamous Cell Papilloma TGLS = 3-4 ]

[ Squamous Cell Papilloma TGLS = 3-4 ]

[ Ulcer TGLS = 1-3,2-2 ]

[ Ulcer TGLS = 1-3,2-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 388

TRT#: 12

SEX: Female

DAY ON TEST: 363

DOSE: MNNG 100 /TPA 1

DISP: Terminal Sacrifice

HISTO: 8611158

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Papilloma TGLS = 1-3,4-4,2-5,7-6,3-7 ]

[ Squamous Cell Papilloma TGLS = 1-3,4-4,2-5,7-6,3-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 389

TRT#: 12

SEX: Female

DAY ON TEST: 330

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611159

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Moderate

SOA-No Mass

Ulcer

Moderate

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Ulcer TGLS = 2-3 ]

[ Ulcer TGLS = 2-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 390

TRT#: 12

SEX: Female

DAY ON TEST: 297

DOSE: MNNG 100 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611160

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
Hair Follicle, SOA-No Mass	Cyst	
Hair Follicle, SOA-No Mass	Cyst	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	

[ Acanthosis TGLS = 5-2,1-3,2-4,3-5,6-7 ]

[ Acanthosis TGLS = 5-2,1-3,2-4,3-5,6-7 ]

[ Acanthosis TGLS = 5-2,1-3,2-4,3-5,6-7 ]

[ Acanthosis TGLS = 5-2,1-3,2-4,3-5,6-7 ]

[ Squamous Cell Carcinoma TGLS = 4-6 ]

[ Squamous Cell Carcinoma TGLS = 4-6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 391

TRT#: 14

SEX: Female

DAY ON TEST: 362

DOSE: MNNG1000 /TPA 1

DISP: Natural Death

HISTO: 8611071

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass, Subcut Tiss	Sarcoma	Multiple
SOA-Mass, Subcut Tiss	Sarcoma	Multiple

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Sarcoma TGLS = 2,3-3,4 ]

[ Sarcoma TGLS = 2,3-3,4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: COD SKIN LESIONS

Animal Note: COD SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:40

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 392

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG1000 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8611072

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 393

TRT#: 14

SEX: Female

DAY ON TEST: 240

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611073

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Acanthosis TGLS = 5-2 ]

[ Acanthosis TGLS = 5-2 ]

[ Squamous Cell Carcinoma TGLS = 1-5,2-6 ]

[ Squamous Cell Carcinoma TGLS = 1-5,2-6 ]

[ Squamous Cell Papilloma TGLS = 3-3,4-4 ]

[ Squamous Cell Papilloma TGLS = 3-3,4-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN MASSES

Animal Note: MORIBUND SAC DUE TO SKIN MASSES

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:40

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 394

TRT#: 14

SEX: Female

DAY ON TEST: 77

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611074

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Acanthosis

Moderate

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Mild

Inflammation

Chronic Active, Mild

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 2-2,3-4,4-5 ]

[ Acanthosis TGLS = 2-2,3-4,4-5 ]

[ Acanthosis TGLS = 2-2,3-4,4-5 ]

[ Acanthosis TGLS = 2-2,3-4,4-5 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:41

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 395

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 246

**DOSE:** MNNG1000 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611075

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 396

TRT#: 14

SEX: Female

DAY ON TEST: 174

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611076

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Ulcer TGLS = 2-3 ]

[ Ulcer TGLS = 2-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 397

TRT#: 14

SEX: Female

DAY ON TEST: 227

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611077

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass, Subcut Tiss

Sarcoma

SOA-Mass, Subcut Tiss

Sarcoma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Sarcoma TGLS = 1-4 ]

[ Sarcoma TGLS = 1-4 ]

[ Ulcer TGLS = 2-3 ]

[ Ulcer TGLS = 2-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 398

TRT#: 14

SEX: Female

DAY ON TEST: 297

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611078

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
	Ulcer	Marked
	Ulcer	Marked

[ Acanthosis TGLS = 2-3,3-4 ]

[ Acanthosis TGLS = 2-3,3-4 ]

[ Acanthosis TGLS = 2-3,3-4 ]

[ Acanthosis TGLS = 2-3,3-4 ]

[ Ulcer TGLS = 1-2,4-5 ]

[ Ulcer TGLS = 1-2,4-5 ]

[ Ulcer TGLS = 1-2,4-5 ]

[ Ulcer TGLS = 1-2,4-5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DE TO SKIN LESIONS

Animal Note: MORIBUND SAC DE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:41

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 399

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG1000 /TPA 1

**DISP:** Terminal Sacrifice

**HISTO:** 8611079

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Papilloma TGLS = 1-3;2-4;3-5;4-6;5-7 ]

[ Squamous Cell Papilloma TGLS = 1-3;2-4;3-5;4-6;5-7 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 400

TRT#: 14

SEX: Female

DAY ON TEST: 300

DOSE: MNNG1000 /TPA 1

DISP: Natural Death

HISTO: 8611080

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-Mass	Cyst Epithelial Inclusion	
SOA-Mass	Cyst Epithelial Inclusion	
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Cyst Epithelial Inclusion TGLS = 2-2 ]

[ Cyst Epithelial Inclusion TGLS = 2-2 ]

[ Ulcer TGLS = 1-3,3-4 ]

[ Ulcer TGLS = 1-3,3-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: COD SKIN LESIONS

Animal Note: COD SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 401

TRT#: 14

SEX: Female

DAY ON TEST: 127

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611081

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Moderate

Control

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

Control

Ulcer

Marked

Control

Ulcer

Marked

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-1 ]

[ Ulcer TGLS = 2-1 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 402

TRT#: 14

SEX: Female

DAY ON TEST: 197

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611082

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Moderate
SOA-No Mass	Ulcer	Moderate

[ Squamous Cell Carcinoma TGLS = 3-3 ]

[ Squamous Cell Carcinoma TGLS = 3-3 ]

[ Ulcer TGLS = 1-2,2-4 ]

[ Ulcer TGLS = 1-2,2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 403

TRT#: 14

SEX: Female

DAY ON TEST: 42

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611083

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
	Acanthosis	Moderate
	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Moderate
SOA-No Mass	Ulcer	Moderate
	Ulcer	Moderate
	Ulcer	Moderate

[ Acanthosis TGLS = 2-4,4-6 ]

[ Acanthosis TGLS = 2-4,4-6 ]

[ Acanthosis TGLS = 2-4,4-6 ]

[ Acanthosis TGLS = 2-4,4-6 ]

[ Acanthosis TGLS = 2-4,4-6 ]

[ Acanthosis TGLS = 2-4,4-6 ]

[ Ulcer TGLS = 1-3,3-5 ]

[ Ulcer TGLS = 1-3,3-5 ]

[ Ulcer TGLS = 1-3,3-5 ]

[ Ulcer TGLS = 1-3,3-5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 404

TRT#: 14

SEX: Female

DAY ON TEST: 303

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611084

OBSERVATIONS

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 3-4 ]

[ Acanthosis TGLS = 3-4 ]

[ Acanthosis TGLS = 3-4 ]

[ Acanthosis TGLS = 3-4 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

[ Ulcer TGLS = 2-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:41

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 405

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 303

**DOSE:** MNNG1000 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611085

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass, Subcut Tiss

Sarcoma

SOA-Mass, Subcut Tiss

Sarcoma

[ Sarcoma TGLS = 1-3 ]

[ Sarcoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 406

TRT#: 14

SEX: Female

DAY ON TEST: 42

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611086

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Control, Hair Follicle

Cyst

Control, Hair Follicle

Cyst

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

Ulcer

Marked

Ulcer

Marked

[ Cyst TGLS = 1-3 ]

[ Cyst TGLS = 1-3 ]

[ Cyst TGLS = 1-3 ]

[ Cyst TGLS = 1-3 ]

[ Ulcer TGLS = 2-4 ]

[ Ulcer TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 407

TRT#: 14

SEX: Female

DAY ON TEST: 108

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611087

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Squamous Cell Papilloma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 408

TRT#: 14

SEX: Female

DAY ON TEST: 155

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611088

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

Acanthosis

Moderate

Acanthosis

Moderate

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

Ulcer

Marked

Ulcer

Marked

[ Acanthosis TGLS = 4-5,3-2 ]

[ Acanthosis TGLS = 4-5,3-2 ]

[ Acanthosis TGLS = 4-5,3-2 ]

[ Acanthosis TGLS = 4-5,3-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-4 ]

[ Ulcer TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 409

TRT#: 14

SEX: Female

DAY ON TEST: 57

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611089

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
Control	Inflammation	Chronic Active, Minimal
Control	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESION

Animal Note: MORIBUND SAC DUE TO SKIN LESION

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 410

TRT#: 14

SEX: Female

DAY ON TEST: 134

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611090

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Acanthosis TGLS = 3-4 ]

[ Acanthosis TGLS = 3-4 ]

[ Acanthosis TGLS = 3-4 ]

[ Acanthosis TGLS = 3-4 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

[ Ulcer TGLS = 2-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 411

TRT#: 14

SEX: Female

DAY ON TEST: 225

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611091

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 5-2 ]

[ Acanthosis TGLS = 5-2 ]

[ Ulcer TGLS = 1-3,2-4,3-5,4-6 ]

[ Ulcer TGLS = 1-3,2-4,3-5,4-6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 412

TRT#: 14

SEX: Female

DAY ON TEST: 251

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611092

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Hair Follicle, SOA-No Mass

Cyst

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Acanthosis TGLS = 5-2 ]

[ Acanthosis TGLS = 5-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3,2-4 ]

[ Squamous Cell Carcinoma TGLS = 1-3,2-4 ]

[ Squamous Cell Papilloma TGLS = 3-5,4-6 ]

[ Squamous Cell Papilloma TGLS = 3-5,4-6 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 413

TRT#: 14

SEX: Female

DAY ON TEST: 253

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611093

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 2-3,3-4 ]

[ Acanthosis TGLS = 2-3,3-4 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:41

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 414

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 91

**DOSE:** MNNG1000 /TPA 1

**DISP:** Moribund Sacrifice

**HISTO:** 8611094

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: REASON FOR MORIBUND SAC. UNDETERMINED

Animal Note: REASON FOR MORIBUND SAC. UNDETERMINED

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:41

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 415

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 97

**DOSE:** MNNG1000 /TPA 1

**DISP:** Natural Death

**HISTO:** 8611095

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

Animal Note: CAUSE OF DEATH UNDETERMINED

Animal Note: CAUSE OF DEATH UNDETERMINED

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-07

**Test Type:** INIT/PROMOT

**Route:** SKIN APPLICATION|DERMAL,SOLUTION

**Species/Strain:** Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**CAS Number:** INIT/PROM

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 18:09:41

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 416

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 150

**DOSE:** MNNG1000 /TPA 1

**DISP:** Natural Death

**HISTO:** 8611096

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Moderate

SOA-No Mass

Ulcer

Moderate

[ Acanthosis TGLS = 4-2,3-5 ]

[ Acanthosis TGLS = 4-2,3-5 ]

[ Ulcer TGLS = 1-3,2-4 ]

[ Ulcer TGLS = 1-3,2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNDETERMINED

Animal Note: CAUSE OF DEATH UNDETERMINED

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 417

TRT#: 14

SEX: Female

DAY ON TEST: 260

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611097

**OBSERVATIONS**

\* Skin

SOA-Mass, Subcut Tiss

Sarcoma

SOA-Mass, Subcut Tiss

Sarcoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

SOA-Mass

Squamous Cell Papilloma

[ Sarcoma TGLS = 3-5 ]

[ Sarcoma TGLS = 3-5 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC. DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC. DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 418

TRT#: 14

SEX: Female

DAY ON TEST: 50

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611098

**OBSERVATIONS**

\* Skin

Control	Inflammation	Chronic Active, Moderate
Control	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
SOA-No Mass	Inflammation	Chronic Active, Moderate
Control	Ulcer	Marked
Control	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Ulcer TGLS = 1-1,1-2 ]

[ Ulcer TGLS = 1-1,1-2 ]

[ Ulcer TGLS = 1-1,1-2 ]

[ Ulcer TGLS = 1-1,1-2 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SENCAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 419

TRT#: 14

SEX: Female

DAY ON TEST: 52

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611099

**OBSERVATIONS**

\* Skin

SOA-Mass

Acanthosis

Mild

SOA-Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Ulcer TGLS = 1-3,3-5 ]

[ Ulcer TGLS = 1-3,3-5 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05117-07

Test Type: INIT/PROMOT

Route: SKIN APPLICATION|DERMAL,SOLUTION

Species/Strain: Mouse/SEN CAR

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

CAS Number: INIT/PROM

Date Report Requested: 10/22/2014

Time Report Requested: 18:09:41

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 420

TRT#: 14

SEX: Female

DAY ON TEST: 50

DOSE: MNNG1000 /TPA 1

DISP: Moribund Sacrifice

HISTO: 8611100

**OBSERVATIONS**

\* Skin

SOA-Mass

Acanthosis

Mild

SOA-Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

Ulcer

Marked

Ulcer

Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 3-3 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 3-3 ]

[ Ulcer TGLS = 2-4 ]

[ Ulcer TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

Animal Note: MORIBUND SAC DUE TO SKIN LESIONS

**\*\* END OF REPORT \*\***

\* PROTOCOL REQUIRED TISSUE