

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**C Number:** C61994C  
**Lock Date:** Not Entered.  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Both  
**PWG Approval Date** 04/29/1994

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 1	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 362
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 868511

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1 <b>DOSE:</b> VEHICLE CONTROL	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 362 <b>HISTO:</b> 868512
<b>OBSERVATIONS</b> * Skin	SOA-No Mass	Acanthosis	Minimal
<b>PRIMARY CAUSE OF DEATH</b>	-		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 362
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 868513

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**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> 362
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 868514

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 5	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 362
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 868515

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 362
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 868516

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**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> 362
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 868517

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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:** 051117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**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> 362
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 868518

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**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> 362
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 868519

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868520

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**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:** 868521

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**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:** 868522

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**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:** 868523

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**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:** 868524

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**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:** 868525

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 16

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868526

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 051117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**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:** 868527

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 18

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 123

**DOSE:** VEHICLE CONTROL

**DISP:** Natural Death

**HISTO:** 868528

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**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:** 868529

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 20

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868530

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**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:** 868531

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 22

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868532

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 23

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868533

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 24

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868534

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 25

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868535

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 26

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868536

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 27

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868537

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 28

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868538

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 29

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868539

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 30

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868540

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 31

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868571

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 32

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:**

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 33

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868573

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 34

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868574

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 35

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868575

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 36

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868576

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 051117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 37

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868577

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 38

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868578

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 39

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 327

**DOSE:** MNNG 100/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868579

---

**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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 40

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868580

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 41

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868581

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Acanthosis

Moderate

[ Acanthosis TGLS = 1-3 ]

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 42

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868582

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Acanthosis

Mild

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 43

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868583

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 44

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868584

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 45

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868585

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 46

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868586

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 47

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868587

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 48

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868588

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 49

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868589

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 50

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868590

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 51

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868591

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 52

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868592

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Papilloma

[ Squamous Cell Papilloma TGLS = 1-3 ]

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 53

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868593

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 54

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868594

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 55

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868595

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 56

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868596

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 57

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868597

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 58

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868598

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 59

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 288

**DOSE:** MNNG 100/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868599

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 60

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868600

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 61

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 283

**DOSE:** MNNG 500/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868631

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 62

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868632

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-Mass

Basal Cell Adenoma

SOA-Mass

Squamous Cell Carcinoma

[ Acanthosis TGLS = 3-3 ]

[ Basal Cell Adenoma TGLS = 1-5 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 63

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 259

**DOSE:** MNNG 500/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868633

---

**OBSERVATIONS**

\* Skin

SOA-Mass, Subcut Tiss

Sarcoma

[ Sarcoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 64

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868634

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 65

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868635

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 66

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868636

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 67

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868637

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 68

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868638

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 69

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 209

**DOSE:** MNNG 500/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868639

---

**OBSERVATIONS**

\* Skin

SOA-Mass, Subcut Tiss

Sarcoma

[ Sarcoma TGLS = 1-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 70

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 348

**DOSE:** MNNG 500/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868640

---

**OBSERVATIONS**

\* Skin

SOA-Mass, Subcut Tiss

Sarcoma

Multiple

SOA-No Mass

Ulcer

Marked

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

[ Ulcer TGLS = 3-4 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 71

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868641

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 72

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868642

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

[ Acanthosis TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 73

**TRT#:** 5  
**DOSE:** MNNG 500/ACETONE

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 363  
**HISTO:** 868643

**OBSERVATIONS**

\* Skin

Control  
SOA-No Mass  
Control  
SOA-No Mass  
Subcut Tiss  
SOA-No Mass

Acanthosis  
Acanthosis  
Inflammation  
Inflammation  
Sarcoma  
Ulcer

Mild  
Marked  
Chronic Active, Minimal  
Chronic Active, Moderate  
  
Marked

[ Acanthosis TGLS = 2-4 ]  
[ Acanthosis TGLS = 2-4 ]  
[ Sarcoma TGLS = 3-3 ]  
[ Ulcer TGLS = 1-2 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 74

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868644

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Moderate

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

---

**PRIMARY CAUSE OF DEATH**

-

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Animal Note: TGL3-3, 1X1 MM CRUST NOT PRESENT ON SLIDE

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 75

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868645

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Papilloma

Multiple

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

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 76

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868646

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Basal Cell Adenoma

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass, Subcut Tiss

Sarcoma

SOA-No Mass

Ulcer

Moderate

[ Basal Cell Adenoma TGLS = 2-3 ]

[ Sarcoma TGLS = 1-6 ]

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

---

**PRIMARY CAUSE OF DEATH**

-

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Animal Note: TGL3-5, NCL ON MICRO, JUST SERUM ON SURFACE

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 77

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 222

**DOSE:** MNNG 500/ACETONE

**DISP:** Natural Death

**HISTO:** 868647

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 78

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 244

**DOSE:** MNNG 500/ACETONE

**DISP:** Natural Death

**HISTO:** 868648

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 79

**TRT#:** 5  
**DOSE:** MNNG 500/ACETONE

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:** 190  
**HISTO:** 868649

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Inflammation

Chronic Active, Marked

Inflammation

Chronic Active, Marked

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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 80

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 251

**DOSE:** MNNG 500/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868650

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-4 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 81

**TRT#:** 5  
**DOSE:** MNNG 500/ACETONE

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 44  
**HISTO:** 868651

---

**OBSERVATIONS**

\* Skin

Control  
SOA-No Mass  
Control  
SOA-No Mass

Acanthosis  
Acanthosis  
Inflammation  
Inflammation  
Ulcer

Mild  
Minimal  
Chronic Active, Minimal  
Chronic Active, Minimal  
Chronic Active, Moderate  
Marked

[ Ulcer TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 82

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868652

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 83

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868653

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 84

**TRT#:** 5  
**DOSE:** MNNG 500/ACETONE

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 181  
**HISTO:** 868654

---

**OBSERVATIONS**

\* Skin

SOA-No Mass  
SOA-No Mass

Acanthosis  
Inflammation  
Inflammation  
Ulcer

Mild  
Chronic Active, Minimal  
Chronic Active, Moderate  
Marked

[ Inflammation TGLS = 1-2 ]

[ Inflammation TGLS = 1-2 ]

[ Ulcer TGLS = 2-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 85

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 331

**DOSE:** MNNG 500/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868655

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

[ Ulcer TGLS = 1-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 86

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 245

**DOSE:** MNNG 500/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868656

---

**OBSERVATIONS**

\* Skin

SOA-Mass, Subcut Tiss

Sarcoma

[ Sarcoma TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 87

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 159

**DOSE:** MNNG 500/ACETONE

**DISP:** Natural Death

**HISTO:** 868657

**OBSERVATIONS**

\* Skin

Hair Follicle, SOA-No Mass

Cyst

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

SOA-No Mass

Ulcer

Moderate

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

[ Squamous Cell Papilloma TGLS = 3-5 ]

[ Ulcer TGLS = 4-2,5-6 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 88	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 364
	<b>DOSE:</b> MNNG 500/ACETONE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 868658

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 89

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868659

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 90

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 217

**DOSE:** MNNG 500/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868660

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 91	<b>TRT#:</b> 7 <b>DOSE:</b> MNNG1000/ACETONE	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 79 <b>HISTO:</b> 868691
<b>OBSERVATIONS</b>			
* Skin	Control	Inflammation	Chronic Active, Moderate
	SOA-No Mass	Inflammation	Chronic Active, Moderate
	Control	Ulcer	Marked
	SOA-No Mass	Ulcer	Marked
[ Ulcer TGLS = 1-2,2-1 ]			
[ Ulcer TGLS = 1-2,2-1 ]			
<b>PRIMARY CAUSE OF DEATH</b>	-		

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 051117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 92

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 250

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868692

---

**OBSERVATIONS**

\* Skin

SOA-Mass, Subcut Tiss

Alopecia

Sarcoma

[ Alopecia TGLS = 2-3 ]

[ Sarcoma TGLS = 1-4 ]

---

**PRIMARY CAUSE OF DEATH**

-

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Animal Note: TGL3-2, CRUST NOT APPARENT ON SLIDE

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 93

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 155

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868693

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

Inflammation

Chronic Active, Moderate

Squamous Cell Carcinoma

Multiple

Ulcer

Marked

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

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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 94

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 168

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868694

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Moderate

Ulcer

Marked

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

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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 95

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 268

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868695

**OBSERVATIONS**

\* Skin

SOA-Mass, Subcut Tiss

SOA-Mass

Inflammation

Squamous Cell Carcinoma

Squamous Cell Papilloma

Ulcer

Chronic Active, Marked

Marked

[ Squamous Cell Carcinoma TGLS = 2-5 ]

[ Squamous Cell Papilloma TGLS = 1-4 ]

[ Ulcer TGLS = 3-3 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL4 NOT SEEN AT TRIM

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 96

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 197

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868696

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Inflammation

Squamous Cell Papilloma

Ulcer

Chronic Active, Moderate

Multiple

Moderate

[ Squamous Cell Papilloma TGLS = 1-5,2-4,3-4 ]

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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 97

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 356

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868697

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 98

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 37

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868698

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

Ulcer

Marked

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

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

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 99

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 114

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868699

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 100

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 184

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868700

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Inflammation

Chronic Active, Moderate

Squamous Cell Carcinoma

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 1-3 ]

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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 101

**TRT#:** 7  
**DOSE:** MNNG1000/ACETONE

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 122  
**HISTO:** 868701

---

**OBSERVATIONS**

\* Skin

SOA-No Mass  
SOA-No Mass

Acanthosis  
Inflammation  
Inflammation  
Ulcer

Marked  
Chronic Active, Marked  
Chronic Active, Moderate  
Moderate

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

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

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 102

**TRT#:** 7  
**DOSE:** MNNG1000/ACETONE

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 362  
**HISTO:** 868702

---

**OBSERVATIONS**

\* Skin

SOA-No Mass  
SOA-No Mass  
Subcut Tiss  
SOA-Mass

Acanthosis  
Inflammation  
Sarcoma  
Squamous Cell Papilloma

Minimal  
Chronic Active, Minimal

[ Sarcoma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 103

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 181

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868703

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Papilloma

[ Squamous Cell Papilloma TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 104

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 131

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868704

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

[ Acanthosis TGLS = 2-3 ]

[ Inflammation TGLS = 1-4 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: TGL3-2, NO CRUST APPARENT ON MICRO

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 105

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868705

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 106

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 131

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868706

---

**OBSERVATIONS**

\* Skin

Inflammation

Chronic Active, Moderate

Ulcer

Marked

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

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 107

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 289

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868707

---

**OBSERVATIONS**

\* Skin

SOA-Mass, Subcut Tiss

Alopecia

Sarcoma

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Alopecia TGLS = 2-6 ]

[ Sarcoma TGLS = 3-5 ]

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

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: TGL1-2, SCALLY SKIN NOT APPARENT ON MICRO

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 108

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 211

**DOSE:** MNNG1000/ACETONE

**DISP:** Natural Death

**HISTO:** 868708

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Papilloma

SOA-No Mass

Ulcer

Moderate

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 109

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 203

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868709

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Acanthosis

Marked

SOA-Mass, Subcut Tiss

Sarcoma

[ Sarcoma TGLS = 1-2 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 110

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868710

**OBSERVATIONS**

\* Skin

SOA-No Mass

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

SOA-No Mass

Ulcer

Marked

Ulcer

Moderate

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

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

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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 111

**TRT#:** 7  
**DOSE:** MNNG1000/ACETONE

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 175  
**HISTO:** 868711

---

**OBSERVATIONS**

* Skin	SOA-No Mass	Acanthosis Alopecia Inflammation	Mild, Moderate Chronic Active, Moderate
	SOA-Mass	Squamous Cell Carcinoma Ulcer	Moderate

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

---

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 112

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868712

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 113

**TRT#:** 7  
**DOSE:** MNNG1000/ACETONE

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 217  
**HISTO:** 868713

**OBSERVATIONS**

\* Skin

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

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

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

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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 114

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 292

**DOSE:** MNNG1000/ACETONE

**DISP:** Natural Death

**HISTO:** 868714

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

[ Ulcer TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 115

**TRT#:** 7  
**DOSE:** MNNG1000/ACETONE

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 197  
**HISTO:** 868715

---

**OBSERVATIONS**

\* Skin

Hair Follicle, SOA-No Mass  
SOA-No Mass

SOA-Mass  
SOA-No Mass

Cyst  
Inflammation  
Inflammation  
Squamous Cell Papilloma  
Ulcer  
Ulcer

Chronic Active, Moderate  
Chronic Active, Moderate

Moderate  
Marked

[ Squamous Cell Papilloma TGLS = 1-3 ]

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

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

---

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 116

**TRT#:** 7  
**DOSE:** MNNG1000/ACETONE

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 259  
**HISTO:** 868716

**OBSERVATIONS**

\* Skin

Control  
Hair Follicle, SOA-No Mass  
Control  
SOA-No Mass  
  
SOA-Mass  
SOA-No Mass

Acanthosis  
Cyst  
Inflammation  
Inflammation  
Inflammation  
Squamous Cell Carcinoma  
Ulcer

Moderate  
  
Chronic Active, Mild  
Chronic Active, Moderate  
Chronic Active, Marked  
Multiple  
Marked

[ Cyst TGLS = 3-5 ]  
[ Inflammation TGLS = 5-7 ]  
[ Inflammation TGLS = 5-7 ]  
[ Inflammation TGLS = 5-7 ]  
[ Squamous Cell Carcinoma TGLS = 1-3,2-4 ]  
[ Ulcer TGLS = 4-6 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 117

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868717

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 118

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868718

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 119

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 169

**DOSE:** MNNG1000/ACETONE

**DISP:** Natural Death

**HISTO:** 868719

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Inflammation

Chronic Active, Mild

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Moderate

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 1-3 ]

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

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

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 120

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868720

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 151

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 288

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868811

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 152

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 286

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868812

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-No Mass

Ulcer

Marked

Ulcer

Marked

[ Acanthosis TGLS = 5-2 ]

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

[ Ulcer TGLS = 3-3,4-7 ]

[ Ulcer TGLS = 3-3,4-7 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL6-6, NO LESION ON SLIDE OR IN WET TISSUE

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 153

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 303

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868813

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Moderate

[ Acanthosis TGLS = 3-3 ]

[ Acanthosis TGLS = 3-3 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Ulcer TGLS = 2-2 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 154

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 288

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868814

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 155

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 261

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868815

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-No Mass

Ulcer

Marked

Ulcer

Marked

[ Acanthosis TGLS = 4-2 ]

[ Acanthosis TGLS = 4-2 ]

[ Squamous Cell Carcinoma TGLS = 1,6-3,6 ]

[ Ulcer TGLS = 3-4,5-7 ]

[ Ulcer TGLS = 3-4,5-7 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: TGL2-5, NCL, EXUDATE ON SKIN SURFACE

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 156

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 206

**DOSE:** MNNG100/COMPLETE

**DISP:** Natural Death

**HISTO:** 868816

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-No Mass

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 1-3,2-4,3-5 ]

[ Ulcer TGLS = 4-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 157

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG100/COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868817

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 5-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3,2-4,3-5 ]

[ Ulcer TGLS = 4-3 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 158

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 314

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868818

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Marked

Inflammation

Chronic Active, Moderate

SOA-No Mass, Subcut Tiss

Sarcoma

SOA-Mass

Squamous Cell Carcinoma

Multiple

Control

Ulcer

Marked

Ulcer

Marked

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

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

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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 159

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG100/COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868819

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

SOA-No Mass

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 2-4,3-5,4-6 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 160

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG100/COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868820

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass, Subcut Tiss

Infiltration Cellular

Mixed Cell, Moderate

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

[ Acanthosis TGLS = 4-6 ]

[ Acanthosis TGLS = 4-6 ]

[ Infiltration Cellular TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 3-5 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 161

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 296

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868821

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-No Mass

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 3-4 ]

[ Squamous Cell Papilloma TGLS = 1-2,5-6 ]

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

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 162

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 303

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868822

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

[ Acanthosis TGLS = 2-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 163

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 341

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868823

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Carcinoma TGLS = 1-3 ]

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

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 164

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 266

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868824

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Minimal

SOA-Mass

Basal Cell Adenoma

SOA-Mass

Squamous Cell Carcinoma

Multiple

[ Basal Cell Adenoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 2-4,3-5,4-6 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 165

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 245

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868825

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Moderate

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Ulcer TGLS = 2-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 166

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 174

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868826

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 167

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 303

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868827

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 168

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 252

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868828

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 169

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 327

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868829

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-No Mass

Ulcer

Moderate

[ Acanthosis TGLS = 5-2 ]

[ Acanthosis TGLS = 5-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3,2-4,3-5 ]

[ Ulcer TGLS = 4-6 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 170

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 137

**DOSE:** MNNG100/COMPLETE

**DISP:** Natural Death

**HISTO:** 868830

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Ulcer

Marked

[ Ulcer TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 171

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 174

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868831

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Papilloma

Ulcer

Marked

[ Squamous Cell Papilloma TGLS = 1-3 ]

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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 172

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 259

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868832

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 173

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 259

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868833

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 174

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 273

**DOSE:** MNNG100/COMPLETE

**DISP:** Natural Death

**HISTO:** 868834

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-No Mass

Ulcer

Marked

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

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 175

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 245

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868835

**OBSERVATIONS**

\* Skin

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

[ Acanthosis TGLS = 6-6 ]

[ Acanthosis TGLS = 6-6 ]

[ Sarcoma TGLS = 6-6 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Squamous Cell Papilloma TGLS = 2-3 ]

[ Ulcer TGLS = 4-2,3-5,5-7 ]

[ Ulcer TGLS = 4-2,3-5,5-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 176

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG100/COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868836

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

SOA-Mass, Subcut Tiss

Sarcoma

SOA-Mass

Squamous Cell Carcinoma

[ Sarcoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 177

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 316

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868837

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Moderate

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 178

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 314

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868838

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Moderate

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 3-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 179

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 252

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868839

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 180

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 259

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868840

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 1-3 ]

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

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 181

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868871

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 182

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 294

**DOSE:** BPO 20 COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868872

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 183

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868873

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 184

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868874

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 185

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868875

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 186

**TRT#:** 13  
**DOSE:** BPO 20 COMPLETE

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 362  
**HISTO:** 868876

---

**OBSERVATIONS**

\* Skin

Control  
SOA-No Mass  
SOA-No Mass

Acanthosis  
Acanthosis  
Inflammation

Minimal  
Mild  
Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 187

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868877

---

**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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 188

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868878

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 189

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868879

---

**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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 190

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 155

**DOSE:** BPO 20 COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868880

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Acanthosis

Marked

SOA-No Mass

Alopecia

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Moderate

Ulcer

Marked

[ Acanthosis TGLS = 3-5 ]

[ Acanthosis TGLS = 3-5 ]

[ Alopecia TGLS = 4-2 ]

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

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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 191

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868881

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 192

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868882

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 193

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868883

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 194

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868884

---

**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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 195

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868885

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 196

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868886

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 197

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868887

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 198

**TRT#:** 13  
**DOSE:** BPO 20 COMPLETE

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 363  
**HISTO:** 868888

---

**OBSERVATIONS**

\* Skin

Control  
SOA-No Mass  
Control  
SOA-No Mass

Acanthosis  
Acanthosis  
Inflammation  
Inflammation

Minimal  
Minimal  
Chronic Active, Minimal  
Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 199

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868889

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 200

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 209

**DOSE:** BPO 20 COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868890

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 201

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868891

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Mild

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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 202

**TRT#:** 13  
**DOSE:** BPO 20 COMPLETE

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 364  
**HISTO:** 868892

---

**OBSERVATIONS**

\* Skin

Control  
SOA-No Mass  
SOA-No Mass

Acanthosis  
Acanthosis  
Inflammation

Minimal  
Mild  
Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 203

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868893

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 204

**TRT#:** 13  
**DOSE:** BPO 20 COMPLETE

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 364  
**HISTO:** 868894

---

**OBSERVATIONS**

\* Skin

Control  
SOA-No Mass  
Control  
SOA-No Mass

Acanthosis  
Acanthosis  
Inflammation  
Inflammation

Minimal  
Mild  
Chronic Active, Minimal  
Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 205

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868895

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 206

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868896

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 207

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** BPO 20 COMPLETE

**DISP:** Natural Death

**HISTO:** 868897

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 208

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868898

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 209

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868899

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 210

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868900

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Mild

[ Acanthosis TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 211

**TRT#:** 15  
**DOSE:** MNNG 100/BPO 20

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 362  
**HISTO:** 868931

---

**OBSERVATIONS**

\* Skin

SOA-No Mass  
SOA-No Mass  
SOA-No Mass  
SOA-No Mass

Acanthosis  
Acanthosis  
Inflammation  
Inflammation

Mild  
Mild  
Chronic Active, Minimal  
Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 212

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868932

---

**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

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 213

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868933

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 214

**TRT#:** 15  
**DOSE:** MNNG 100/BPO 20

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 362  
**HISTO:** 868934

**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	Keratoacanthoma	
SOA-Mass	Keratoacanthoma	
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Keratoacanthoma TGLS = 1-3 ]

[ Keratoacanthoma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 215

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868935

**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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 216

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868936

**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 Papilloma

SOA-Mass

Squamous Cell Papilloma

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 217

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 249

**DOSE:** MNNG 100/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 868937

**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

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 218

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868938

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 219

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868939

---

**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

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 220

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868940

---

**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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 221

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868941

**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	Keratoacanthoma	
SOA-Mass	Keratoacanthoma	

[ Keratoacanthoma TGLS = 1-3 ]

[ Keratoacanthoma TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 222

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868942

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 223

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868943

**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 = 2-3 ]

[ Ulcer TGLS = 2-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 224

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868944

---

**OBSERVATIONS**

* Skin	Control	Acanthosis	Minimal
	Control	Acanthosis	Minimal
	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

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 225

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868945

**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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 226

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868946

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 227

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868947

---

**OBSERVATIONS**

* Skin	Control	Acanthosis	Minimal
	Control	Acanthosis	Minimal
	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

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 228

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868948

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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	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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 229

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868949

---

**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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 230

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868950

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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	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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 231

**TRT#:** 15  
**DOSE:** MNNG 100/BPO 20

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 364  
**HISTO:** 868951

**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

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 232

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868952

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Acanthosis

Moderate

SOA-Mass

Acanthosis

Moderate

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 233

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868953

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 234

**TRT#:** 15  
**DOSE:** MNNG 100/BPO 20

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 296  
**HISTO:** 868954

**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, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass	Squamous Cell Carcinoma	Multiple
SOA-Mass	Squamous Cell Carcinoma	Multiple

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

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

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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 235

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868955

**OBSERVATIONS**

* Skin	Control	Acanthosis	Minimal
	Control	Acanthosis	Minimal
	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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 236

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868956

**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 Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

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

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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 237

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868957

---

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 238

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868958

---

**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 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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 239

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868959

---

**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 = 1-7,2-6,3-5,4-4,5-3 ]

[ Squamous Cell Papilloma TGLS = 1-7,2-6,3-5,4-4,5-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 240

**TRT#:** 15

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868960

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 241

**TRT#:** 17  
**DOSE:** MNNG 500/BPO 20

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 341  
**HISTO:** 868991

**OBSERVATIONS**

\* Skin

SOA-No Mass  
SOA-No Mass  
SOA-No Mass  
SOA-No Mass  
SOA-Mass, Subcut Tiss  
SOA-Mass, Subcut Tiss

Acanthosis  
Acanthosis  
Inflammation  
Inflammation  
Sarcoma  
Sarcoma

Marked  
Marked  
Chronic Active, Moderate  
Chronic Active, Moderate

[ Acanthosis TGLS = 3-3 ]  
[ Acanthosis TGLS = 3-3 ]  
[ Sarcoma TGLS = 1-4 ]  
[ Sarcoma TGLS = 1-4 ]

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL2,NOT FOUND AT TRIM

Animal Note: TGL2,NOT FOUND AT TRIM

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 242

**TRT#:** 17  
**DOSE:** MNNG 500/BPO 20

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 286  
**HISTO:** 868992

**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, Subcut Tiss	Sarcoma	
SOA-Mass, Subcut Tiss	Sarcoma	
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple

[ Sarcoma TGLS = 1-5 ]

[ Sarcoma TGLS = 1-5 ]

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

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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 243

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868993

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 244

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868994

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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, 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 = 2-4 ]

[ Sarcoma TGLS = 2-4 ]

[ Squamous Cell Carcinoma TGLS = 3-3 ]

[ Squamous Cell Carcinoma TGLS = 3-3 ]

[ Squamous Cell Papilloma TGLS = 1-5 ]

[ Squamous Cell Papilloma TGLS = 1-5 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 245

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 189

**DOSE:** MNNG 500/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 868995

**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

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Moderate

SOA-No Mass

Ulcer

Moderate

Ulcer

Moderate

Ulcer

Moderate

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

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

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

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

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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 246

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868996

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 051117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 247

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 225

**DOSE:** MNNG 500/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 868997

---

**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

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

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**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 248

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 207

**DOSE:** MNNG 500/BPO 20

**DISP:** Natural Death

**HISTO:** 868998

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Acanthosis

Moderate

SOA-Mass

Acanthosis

Moderate

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 249

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 217

**DOSE:** MNNG 500/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 868999

**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, 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 = 1-4 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Ulcer TGLS = 2-3 ]

[ Ulcer TGLS = 2-3 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: TGL3, NOT FOUND AT TRIM

Animal Note: TGL3, NOT FOUND AT TRIM

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 250

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869000

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-Mass	Acanthosis	Moderate
SOA-Mass	Acanthosis	Moderate
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

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 251

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869001

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 252

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869002

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 253

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** MNNG 500/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869003

---

**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

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 254

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 210

**DOSE:** MNNG 500/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869004

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 255

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 228

**DOSE:** MNNG 500/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869005

**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
	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
SOA-Mass, Subcut Tiss	Sarcoma	
SOA-Mass, Subcut Tiss	Sarcoma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked
	Ulcer	Marked
	Ulcer	Marked

[ Acanthosis TGLS = 5-2 ]

[ Acanthosis TGLS = 5-2 ]

[ Acanthosis TGLS = 5-2 ]

[ Acanthosis TGLS = 5-2 ]

[ Sarcoma TGLS = 4-6 ]

[ Sarcoma TGLS = 4-6 ]

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

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

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

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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 256

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869006

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-Mass	Acanthosis	Minimal
SOA-Mass	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

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 257

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869007

**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, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass	Keratoacanthoma	
SOA-Mass	Keratoacanthoma	

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Keratoacanthoma TGLS = 1-3 ]

[ Keratoacanthoma TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 258

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869008

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**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 259

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 220

**DOSE:** MNNG 500/BPO 20

**DISP:** Natural Death

**HISTO:** 869009

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass, Subcut Tiss	Edema	Moderate
SOA-No Mass, Subcut Tiss	Edema	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	Multiple
SOA-Mass	Squamous Cell Carcinoma	Multiple

[ Edema TGLS = 4-2 ]

[ Edema TGLS = 4-2 ]

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

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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 260

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869010

**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 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 = 3,4-5,6 ]

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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 261

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869011

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
SOA-No Mass	Acanthosis	Mild
SOA-Mass, Subcut Tiss	Fibroma	
SOA-Mass, Subcut Tiss	Fibroma	
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

[ Fibroma TGLS = 2-4 ]

[ Fibroma 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**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 262

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869012

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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 Papilloma

Multiple

SOA-Mass

Squamous Cell Papilloma

Multiple

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

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

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 263

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 259

**DOSE:** MNNG 500/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869013

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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
	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	
	Ulcer	Marked
	Ulcer	Marked

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

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

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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 051117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 264

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869014

---

**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

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 265

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 203

**DOSE:** MNNG 500/BPO 20

**DISP:** Natural Death

**HISTO:** 869015

**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

SOA-Mass

Keratoacanthoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

[ Keratoacanthoma TGLS = 1-3 ]

[ Keratoacanthoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 266

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869016

---

**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 Papilloma

SOA-Mass

Squamous Cell Papilloma

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 267

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 168

**DOSE:** MNNG 500/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869017

**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

SOA-Mass

Keratoacanthoma

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Carcinoma

[ Keratoacanthoma TGLS = 2-3 ]

[ Keratoacanthoma TGLS = 2-3 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 268

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 268

**DOSE:** MNNG 500/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869018

---

**OBSERVATIONS**

\* Skin

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

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 269

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869019

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Mild
Control	Acanthosis	Mild
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
SOA-Mass, Sebaceous Gl	Adenoma	
SOA-Mass, Sebaceous Gl	Adenoma	
Control	Inflammation	Chronic Active, Mild
Control	Inflammation	Chronic Active, Mild
SOA-Mass, Subcut Tiss	Sarcoma	
SOA-Mass, Subcut Tiss	Sarcoma	
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple

[ Adenoma TGLS = 2-4 ]

[ Adenoma 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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 270

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869020

**OBSERVATIONS**

* Skin	Control	Acanthosis	Minimal
	Control	Acanthosis	Minimal
	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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 271

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 105

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869051

---

**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

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

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

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

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 272

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869052

---

**OBSERVATIONS**

\* Skin

SOA-Mass, Subcut Tiss

Sarcoma

SOA-Mass, Subcut Tiss

Sarcoma

[ Sarcoma TGLS = 1-3 ]

[ Sarcoma TGLS = 1-3 ]

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**PRIMARY CAUSE OF DEATH**

-

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Animal Note: TGL 2-4, MAMMARY GLAND ADENOCARCINOMA, NOT ENTERED.

Animal Note: TGL 2-4, MAMMARY GLAND ADENOCARCINOMA, NOT ENTERED.

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 273

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 362

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869053

**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	

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

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

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

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

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 274

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 268

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869054

**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, 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**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 275

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 244

**DOSE:** MNNG1000/BPO 20

**DISP:** Natural Death

**HISTO:** 869055

**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, 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 ]

[ 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**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 276

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 250

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869056

**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	

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

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

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

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

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 277

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 154

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869057

**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
	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
	Ulcer	Marked
	Ulcer	Marked

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 278

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869058

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Papilloma

SOA-Mass

Squamous Cell Papilloma

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 279

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 181

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869059

**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	

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 280

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 195

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869060

**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

SOA-Mass

Squamous Cell Papilloma

SOA-Mass

Squamous Cell Papilloma

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Squamous Cell Carcinoma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 281

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 363

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869061

**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 Papilloma

SOA-Mass

Squamous Cell Papilloma

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Ulcer TGLS = 2-4 ]

[ Ulcer TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 282

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 268

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869062

**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, 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**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 283

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 122

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869063

**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, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
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**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 284

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 209

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869064

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

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Squamous Cell Carcinoma TGLS = 2-3 ]

[ Squamous Cell Carcinoma TGLS = 2-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 285

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869065

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-Mass

Basal Cell Adenoma

SOA-Mass

Basal Cell Adenoma

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass, Subcut Tiss

Sarcoma

SOA-Mass, Subcut Tiss

Sarcoma

[ Basal Cell Adenoma TGLS = 2-3 ]

[ Basal Cell Adenoma TGLS = 2-3 ]

[ Sarcoma TGLS = 1-4 ]

[ Sarcoma TGLS = 1-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 286

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 364

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869066

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Acanthosis

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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 287

**TRT#:** 19  
**DOSE:** MNNG1000/BPO 20

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 217  
**HISTO:** 869067

**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-Mass	Squamous Cell Carcinoma	
	SOA-Mass	Squamous Cell Carcinoma	
	SOA-No Mass	Ulcer	Marked
	SOA-No Mass	Ulcer	Marked

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

**PRIMARY CAUSE OF DEATH**

-

Animal Note: TGL3-4, IS SAME TUMOR FROM BACK

Animal Note: TGL3-4, IS SAME TUMOR FROM BACK

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 288

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 327

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869068

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 289

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 245

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869069

**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	

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

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

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

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

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 290

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 209

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869070

**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 Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

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

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

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

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

[ Squamous Cell Carcinoma TGLS = 2-5 ]

[ Squamous Cell Carcinoma TGLS = 2-5 ]

[ Ulcer TGLS = 3-3 ]

[ Ulcer TGLS = 3-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 291

**TRT#:** 19  
**DOSE:** MNNG1000/BPO 20

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 303  
**HISTO:** 869071

**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, 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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 292

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 316

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869072

**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
	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
SOA-Mass	Squamous Cell Carcinoma	Multiple
SOA-Mass	Squamous Cell Carcinoma	Multiple
	Ulcer	Marked
	Ulcer	Marked

[ Acanthosis TGLS = 4-2 ]

[ Acanthosis TGLS = 4-2 ]

[ Acanthosis TGLS = 4-2 ]

[ Acanthosis TGLS = 4-2 ]

[ Squamous Cell Carcinoma TGLS = 1-5,2-3,3-4 ]

[ Squamous Cell Carcinoma TGLS = 1-5,2-3,3-4 ]

[ Ulcer TGLS = 5-6 ]

[ Ulcer TGLS = 5-6 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 293

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 242

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869073

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 294

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 128

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869074

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**OBSERVATIONS**

\* Skin

SOA-Mass, Subcut Tiss

Sarcoma

SOA-Mass, Subcut Tiss

Sarcoma

[ Sarcoma TGLS = 1-3 ]

[ Sarcoma TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 295

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 213

**DOSE:** MNNG1000/BPO 20

**DISP:** Natural Death

**HISTO:** 869075

**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	

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose MF:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 296

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 316

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869076

**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-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
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 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Ulcer TGLS = 3-2 ]

[ Ulcer TGLS = 3-2 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 297

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 163

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869077

**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, 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**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 298

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 175

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869078

**OBSERVATIONS**

\* Skin

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

[ Alopecia TGLS = 4-6 ]

[ Alopecia TGLS = 4-6 ]

[ Squamous Cell Carcinoma TGLS = 1-3,3-5 ]

[ Squamous Cell Carcinoma TGLS = 1-3,3-5 ]

[ Squamous Cell Carcinoma TGLS = 1-3,3-5 ]

[ Squamous Cell Carcinoma TGLS = 1-3,3-5 ]

[ Ulcer TGLS = 2-4 ]

[ Ulcer TGLS = 2-4 ]

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 299

**TRT#:** 19

**SEX:** Male

**DAY ON TEST:** 314

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869079

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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, Subcut Tiss	Sarcoma	
SOA-Mass, Subcut Tiss	Sarcoma	
SOA-Mass	Trichoepithelioma	
SOA-Mass	Trichoepithelioma	

[ Sarcoma TGLS = 1-3 ]

[ Sarcoma TGLS = 1-3 ]

[ Trichoepithelioma TGLS = 2-4 ]

[ Trichoepithelioma TGLS = 2-4 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 300

**TRT#:** 19  
**DOSE:** MNNG1000/BPO 20

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:** 111  
**HISTO:** 869080

**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, Minimal
SOA-No Mass	Inflammation	Chronic Active, Minimal
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Papilloma	
SOA-Mass	Squamous Cell Papilloma	

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Squamous Cell Carcinoma TGLS = 3-4 ]

[ Squamous Cell Carcinoma TGLS = 3-4 ]

[ Squamous Cell Papilloma TGLS = 2-3 ]

[ Squamous Cell Papilloma TGLS = 2-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 361

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868541

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 362

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868542

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 363

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868543

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 364

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868544

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 365

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868545

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 366

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868546

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 367

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 126

**DOSE:** VEHICLE CONTROL

**DISP:** Accidentally Killed

**HISTO:** 868547

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 368

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868548

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 369

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868549

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 370

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 300

**DOSE:** VEHICLE CONTROL

**DISP:** Natural Death

**HISTO:** 868550

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 371

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868551

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 372

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868552

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 373

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868553

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 374

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868554

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 375

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868555

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 376

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868556

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 377

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868557

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 378

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868558

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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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 379

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 306

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** 868559

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 380

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868560

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 381

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868561

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 382

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868562

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 383

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 330

**DOSE:** VEHICLE CONTROL

**DISP:** Natural Death

**HISTO:** 868563

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 384

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868564

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 385

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868565

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 386

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868566

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 387

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868567

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 388

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868568

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 389

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868569

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 390

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 868570

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 391

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868601

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

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**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 392

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868602

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 393

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868603

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 394

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868604

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Abscess

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 395

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868605

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 396

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868606

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 397

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868607

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:33  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 398

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868608

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 399

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868609

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 400

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868610

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 401

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868611

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 402

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868612

---

**OBSERVATIONS**

\* Skin

Inflammation

Chronic Active, Mild

Ulcer

Mild

[ Ulcer TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 403

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868613

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 404

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868614

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 405

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868615

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 406

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868616

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 407

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868617

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 408

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868618

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 409

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868619

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 410

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868620

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 411

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868621

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 412

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868622

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 413

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868623

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 414

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868624

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 415

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868625

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 416

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868626

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 417

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868627

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 418

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868628

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 419

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868629

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 420

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868630

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 421

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868661

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 422

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868662

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 423

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868663

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 424

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868664

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 425

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868665

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 426

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868666

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 427

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868667

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 428

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 283

**DOSE:** MNNG 500/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868668

---

**OBSERVATIONS**

\* Mammary Gland

[ Adenoacanthoma TGLS = 2-4 ]

Adenoacanthoma

\* Skin

[ Squamous Cell Papilloma TGLS = 1-3 ]

SOA-Mass

Squamous Cell Papilloma

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 429

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868669

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 430

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 273

**DOSE:** MNNG 500/ACETONE

**DISP:** Natural Death

**HISTO:** 868670

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 431

**TRT#:** 6  
**DOSE:** MNNG 500/ACETONE

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 363  
**HISTO:** 868671

---

**OBSERVATIONS**

\* Skin

SOA-No Mass  
SOA-No Mass

Acanthosis  
Inflammation

Minimal  
Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 432

**TRT#:** 6  
**DOSE:** MNNG 500/ACETONE

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 363  
**HISTO:** 868672

---

**OBSERVATIONS**

\* Skin

Control  
SOA-No Mass  
SOA-No Mass  
SOA-Mass

Acanthosis  
Acanthosis  
Inflammation  
Squamous Cell Carcinoma

Minimal  
Mild  
Chronic Active, Minimal

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 433

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868673

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 434

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868674

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 435

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 48

**DOSE:** MNNG 500/ACETONE

**DISP:** Natural Death

**HISTO:** 868675

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 436

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868676

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 437

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868677

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 438

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 209

**DOSE:** MNNG 500/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868678

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 439

**TRT#:** 6  
**DOSE:** MNNG 500/ACETONE

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 364  
**HISTO:** 868679

---

**OBSERVATIONS**

\* Skin

SOA-No Mass  
SOA-No Mass

Acanthosis  
Inflammation

Minimal  
Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 440

**TRT#:** 6  
**DOSE:** MNNG 500/ACETONE

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 245  
**HISTO:** 868680

---

**OBSERVATIONS**

\* Skin

SOA-No Mass  
SOA-No Mass  
SOA-Mass

Acanthosis  
Inflammation  
Keratoacanthoma

Mild  
Chronic Active, Mild

[ Keratoacanthoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 441

**TRT#:** 6  
**DOSE:** MNNG 500/ACETONE

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 364  
**HISTO:** 868681

---

**OBSERVATIONS**

\* Skin

SOA-No Mass  
SOA-No Mass

Acanthosis  
Inflammation

Minimal  
Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 442

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868682

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 443

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868683

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 444

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868684

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 445

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868685

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 446

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868686

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 447

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 500/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868687

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 448

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 174

**DOSE:** MNNG 500/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868688

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 449

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 179

**DOSE:** MNNG 500/ACETONE

**DISP:** Natural Death

**HISTO:** 868689

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 450

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 250

**DOSE:** MNNG 500/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868690

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass, Subcut Tiss

Sarcoma

SOA-Mass

Squamous Cell Papilloma

Multiple

SOA-No Mass

Ulcer

Moderate

[ Acanthosis TGLS = 6-2 ]

[ Sarcoma TGLS = 1-4 ]

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

[ Ulcer TGLS = 5-6,4-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 451

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 245

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868721

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Marked

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

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

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

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 452

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 174

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868722

---

**OBSERVATIONS**

\* Skin

SOA-Mass, Subcut Tiss

Inflammation

Chronic Active, Moderate

Sarcoma

Ulcer

Moderate

[ Sarcoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-4 ]

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 453

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 286

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868723

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

[ Squamous Cell Carcinoma TGLS = 1-5,3-4 ]

[ Squamous Cell Papilloma TGLS = 2-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 454

**TRT#:** 8  
**DOSE:** MNNG1000/ACETONE

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 111  
**HISTO:** 868724

---

**OBSERVATIONS**

\* Skin

SOA-No Mass  
SOA-No Mass  
SOA-No Mass  
SOA-No Mass

Acanthosis  
Inflammation  
Inflammation  
Ulcer

Minimal  
Chronic Active, Minimal  
Chronic Active, Moderate  
Marked

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

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 455

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 146

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868725

---

**OBSERVATIONS**

\* Skin

Acanthosis

Moderate

Inflammation

Chronic Active, Moderate

SOA-Mass, Subcut Tiss

Sarcoma

[ Acanthosis TGLS = 2-4 ]

[ Sarcoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 456

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868726

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 457

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 288

**DOSE:** MNNG1000/ACETONE

**DISP:** Natural Death

**HISTO:** 868727

---

**OBSERVATIONS**

\* Skin

SOA-Mass, Subcut Tiss

Sarcoma

[ Sarcoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 458

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868728

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 459

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868729

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 460

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868730

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 461

**TRT#:** 8  
**DOSE:** MNNG1000/ACETONE

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 119  
**HISTO:** 868731

---

**OBSERVATIONS**

\* Skin

Hair Follicle, SOA-No Mass  
SOA-No Mass

Cyst  
Inflammation  
Inflammation  
Squamous Cell Carcinoma  
Ulcer

Chronic Active, Moderate  
Chronic Active, Moderate  
  
Marked

[ Squamous Cell Carcinoma TGLS = 3-4 ]

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

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 462

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868732

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Acanthosis

Moderate

[ Acanthosis TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 463

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 238

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868733

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Papilloma

[ Squamous Cell Papilloma TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 464

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 303

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868734

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass, Subcut Tiss

Sarcoma

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Sarcoma TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 465

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868735

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 466

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 250

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868736

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Alopecia

Inflammation

Chronic Active, Mild

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

Ulcer

Marked

[ Acanthosis TGLS = 2-4 ]

[ Acanthosis TGLS = 2-4 ]

[ Alopecia TGLS = 5-6 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 3-5 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 467

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 154

**DOSE:** MNNG1000/ACETONE

**DISP:** Natural Death

**HISTO:** 868737

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 468

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 132

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868738

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 3-5 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 469

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 354

**DOSE:** MNNG1000/ACETONE

**DISP:** Natural Death

**HISTO:** 868739

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 470

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868740

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 471

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868741

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 472

**TRT#:** 8  
**DOSE:** MNNG1000/ACETONE

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 197  
**HISTO:** 868742

---

**OBSERVATIONS**

\* Skin

Hair Follicle, SOA-No Mass  
SOA-No Mass  
  
SOA-No Mass

Cyst  
Inflammation  
Inflammation  
Ulcer  
Ulcer

Chronic Active, Moderate  
Chronic Active, Moderate  
Moderate  
Marked

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

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

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 473

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 289

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868743

---

**OBSERVATIONS**

\* Skin

Control

Inflammation

Chronic Active, Moderate

SOA-No Mass

Inflammation

Chronic Active, Minimal, Moderate

SOA-Mass

Squamous Cell Carcinoma

Control

Ulcer

Moderate

SOA-No Mass

Ulcer

Moderate

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

[ Ulcer TGLS = 2-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 474

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 346

**DOSE:** MNNG1000/ACETONE

**DISP:** Moribund Sacrifice

**HISTO:** 868744

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Squamous Cell Carcinoma

Ulcer

Marked

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 2-4 ]

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

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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 475

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 247

**DOSE:** MNNG1000/ACETONE

**DISP:** Natural Death

**HISTO:** 868745

---

**OBSERVATIONS**

\* Skin

Control  
SOA-Mass

Acanthosis  
Squamous Cell Carcinoma

Minimal

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 476

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 148

**DOSE:** MNNG1000/ACETONE

**DISP:** Natural Death

**HISTO:** 868746

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Carcinoma TGLS = 1-3 ]

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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 477

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 257

**DOSE:** MNNG1000/ACETONE

**DISP:** Natural Death

**HISTO:** 868747

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Moderate

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 051117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 478

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868748

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-Mass

Squamous Cell Carcinoma

[ Acanthosis TGLS = 1-2 ]

[ Squamous Cell Carcinoma TGLS = 2-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 479

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868749

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 480

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG1000/ACETONE

**DISP:** Terminal Sacrifice

**HISTO:** 868750

---

**OBSERVATIONS**

\* Skin

SOA-Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Ulcer

Moderate

[ Acanthosis TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 511

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 170

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868841

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 512

**TRT#:** 12  
**DOSE:** MNNG100/COMPLETE

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 324  
**HISTO:** 868842

**OBSERVATIONS**

\* Skin

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

[ Acanthosis TGLS = 6-2 ]

[ Acanthosis TGLS = 6-2 ]

[ Squamous Cell Carcinoma TGLS = 1-3,2-4,3-5 ]

[ Squamous Cell Papilloma TGLS = 4-6,5-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 513

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 198

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868843

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

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

[ Squamous Cell Carcinoma TGLS = 2-4 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 514

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 286

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868844

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 051117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 515

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 289

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868845

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Squamous Cell Carcinoma TGLS = 3-4 ]

[ Ulcer TGLS = 2-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 516

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG100/COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868846

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

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

[ Squamous Cell Papilloma TGLS = 6-7 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 517

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 289

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868847

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

Multiple

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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 518

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 268

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868848

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 519

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 263

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868849

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Acanthosis

Marked

Alopecia

Hair Follicle

Cyst

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Alopecia TGLS = 4-5 ]

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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 520

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 268

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868850

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

Multiple

[ Squamous Cell Carcinoma TGLS = 1-3 ]

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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 521

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 312

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868851

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

Multiple

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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 522

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 225

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868852

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass, Subcut Tiss

Sarcoma

SOA-Mass

Squamous Cell Carcinoma

Multiple

[ Sarcoma TGLS = 4-5 ]

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

**PRIMARY CAUSE OF DEATH**

-

Animal Note: TGL2, NOT SEEN AT TRIM

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 523

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 347

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868853

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

Multiple

[ Acanthosis TGLS = 3-2 ]

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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 524

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 288

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868854

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

SOA-Mass

Basal Cell Adenoma

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

[ Basal Cell Adenoma TGLS = 4-3 ]

[ Squamous Cell Carcinoma TGLS = 3-4 ]

[ Squamous Cell Papilloma TGLS = 2-5 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 525

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 286

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868855

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Moderate

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

Ulcer

Moderate

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

[ Squamous Cell Carcinoma TGLS = 2-1,1-2 ]

[ Ulcer TGLS = 3-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 526

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG100/COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868856

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 527

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 217

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868857

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 528

**TRT#:** 12  
**DOSE:** MNNG100/COMPLETE

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 286  
**HISTO:** 868858

**OBSERVATIONS**

\* Skin

SOA-No Mass  
SOA-No Mass  
SOA-Mass  
Control, Subcut Tiss  
SOA-No Mass, Subcut Tiss  
Subcut Tiss  
SOA-Mass

Acanthosis  
Inflammation  
Keratoacanthoma  
Lymphoma Malignant Undifferentiated Cell Type  
Lymphoma Malignant Undifferentiated Cell Type  
Lymphoma Malignant Undifferentiated Cell Type  
Squamous Cell Carcinoma

Moderate  
Chronic Active, Moderate

[ Acanthosis TGLS = 3-2 ]

[ Keratoacanthoma TGLS = 2-4 ]

[ Lymphoma Malignant Undifferentiated Cell Type TGLS = 4-5 ]

[ Lymphoma Malignant Undifferentiated Cell Type TGLS = 4-5 ]

[ Lymphoma Malignant Undifferentiated Cell Type TGLS = 4-5 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 529

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 307

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868859

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 530

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 168

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868860

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Ulcer

Marked

[ Ulcer TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 531

**TRT#:** 12  
**DOSE:** MNNG100/COMPLETE

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 316  
**HISTO:** 868861

**OBSERVATIONS**

\* Skin

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

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ Sarcoma TGLS = 4-4 ]

[ Squamous Cell Carcinoma TGLS = 2-5 ]

[ Ulcer TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 532

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 264

**DOSE:** MNNG100/COMPLETE

**DISP:** Natural Death

**HISTO:** 868862

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Moderate

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 533

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 210

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868863

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Marked

Inflammation

Chronic Active, Minimal

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

Multiple

Ulcer

Marked

[ Acanthosis TGLS = 3-5 ]

[ Squamous Cell Carcinoma TGLS = 1-3,2-4,3-5 ]

[ Ulcer TGLS = 3-5 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 534

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 306

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868864

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 535

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 341

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868865

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Moderate

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Moderate

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 1-4 ]

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

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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 536

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG100/COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868866

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

SOA-Mass

Squamous Cell Carcinoma

SOA-Mass

Squamous Cell Papilloma

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Squamous Cell Papilloma TGLS = 2-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 537

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 306

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868867

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

Multiple

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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 538

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 341

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868868

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-Mass

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Papilloma

[ Acanthosis TGLS = 5-2 ]

[ Squamous Cell Carcinoma TGLS = 3-3,4-3,1-5 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 539

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 314

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868869

---

**OBSERVATIONS**

\* Skin

SOA-Mass, Subcut Tiss

Sarcoma

SOA-Mass

Squamous Cell Carcinoma

Multiple

[ Sarcoma TGLS = 1-1 ]

[ Squamous Cell Carcinoma TGLS = 1-1,2-2 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 540

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 312

**DOSE:** MNNG100/COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868870

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

Control

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Marked

SOA-Mass

Squamous Cell Carcinoma

SOA-No Mass

Ulcer

Marked

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-2 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 541

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868901

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 542

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868902

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 543

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868903

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 544

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 358

**DOSE:** BPO 20 COMPLETE

**DISP:** Natural Death

**HISTO:** 868904

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 545

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868905

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 546

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868906

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Mild

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 547

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868907

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 548

**TRT#:** 14  
**DOSE:** BPO 20 COMPLETE

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 362  
**HISTO:** 868908

---

**OBSERVATIONS**

\* Skin

SOA-No Mass  
SOA-No Mass

Acanthosis  
Inflammation

Mild  
Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 549

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868909

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 550

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868910

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 551

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868911

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 552

**TRT#:** 14  
**DOSE:** BPO 20 COMPLETE

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 363  
**HISTO:** 868912

---

**OBSERVATIONS**

\* Skin

SOA-No Mass  
SOA-No Mass

Acanthosis  
Inflammation

Minimal  
Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 553

**TRT#:** 14  
**DOSE:** BPO 20 COMPLETE

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 363  
**HISTO:** 868913

---

**OBSERVATIONS**

\* Skin

SOA-No Mass  
SOA-No Mass

Acanthosis  
Inflammation  
Inflammation  
Ulcer

Marked  
Chronic Active, Mild  
Chronic Active, Moderate  
Moderate

[ Acanthosis TGLS = 2-2 ]

[ Ulcer TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 554

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868914

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 555

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 110

**DOSE:** BPO 20 COMPLETE

**DISP:** Moribund Sacrifice

**HISTO:** 868915

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Moderate

SOA-No Mass

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

Ulcer

Marked

[ Acanthosis TGLS = 1-6 ]

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

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

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 556

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868916

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 557

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868917

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 558

**TRT#:** 14  
**DOSE:** BPO 20 COMPLETE

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 363  
**HISTO:** 868918

---

**OBSERVATIONS**

\* Skin

Control  
SOA-No Mass  
Control  
SOA-No Mass

Acanthosis  
Acanthosis  
Inflammation  
Inflammation

Minimal  
Minimal  
Chronic Active, Minimal  
Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 559

**TRT#:** 14  
**DOSE:** BPO 20 COMPLETE

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 363  
**HISTO:** 868919

---

**OBSERVATIONS**

\* Skin

SOA-No Mass  
SOA-No Mass

Acanthosis  
Inflammation

Mild  
Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 560

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868920

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 561

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 355

**DOSE:** BPO 20 COMPLETE

**DISP:** Natural Death

**HISTO:** 868921

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Mild

SOA-No Mass

Acanthosis

Mild

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 562

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868922

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Mild

[ Acanthosis TGLS = 1-2 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 563

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868923

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 564

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868924

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 565

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868925

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 566

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868926

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 567

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868927

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 568

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868928

---

**OBSERVATIONS**

\* Skin

Control

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

Control

Inflammation

Chronic Active, Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 569

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868929

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 570

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** BPO 20 COMPLETE

**DISP:** Terminal Sacrifice

**HISTO:** 868930

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 571

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868961

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 572

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868962

---

**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

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 573

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868963

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 574

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868964

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Acanthosis

Minimal

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 575

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868965

**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 Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 576

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868966

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 577

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868967

**OBSERVATIONS**

* Skin	Control	Acanthosis	Minimal
	Control	Acanthosis	Minimal
	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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 578

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868968

---

**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 ]

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

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 579

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868969

**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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 580

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868970

---

**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

SOA-Mass

Keratoacanthoma

[ Keratoacanthoma TGLS = 1-3 ]

[ Keratoacanthoma TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 581

**TRT#:** 16  
**DOSE:** MNNG 100/BPO 20

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 363  
**HISTO:** 868971

---

**OBSERVATIONS**

* Skin	Control	Acanthosis	Minimal
	Control	Acanthosis	Minimal
	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

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 582

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868972

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 583

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868973

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 584

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868974

**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 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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 585

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868975

**OBSERVATIONS**

* Skin	Control	Acanthosis	Minimal
	Control	Acanthosis	Minimal
	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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 586

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868976

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 587

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868977

**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	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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 588

**TRT#:** 16  
**DOSE:** MNNG 100/BPO 20

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 184  
**HISTO:** 868978

**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
	Inflammation	Chronic Active, Mild
	Inflammation	Chronic Active, Mild
SOA-Mass	Keratoacanthoma	
SOA-Mass	Keratoacanthoma	
	Ulcer	Moderate
	Ulcer	Moderate

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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 589

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868979

**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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 590

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868980

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 591

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868981

**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	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple

[ Squamous Cell Papilloma TGLS = 1-4,1-5,1-6,1-7 ]

[ Squamous Cell Papilloma TGLS = 1-4,1-5,1-6,1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 592

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868982

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 593

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868983

---

**OBSERVATIONS**

\* Skin

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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 594

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868984

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 595

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868985

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 596

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868986

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Skin

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 597

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868987

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 598

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868988

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 599

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868989

**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

Squamous Cell Carcinoma

Multiple

SOA-Mass

Squamous Cell Carcinoma

Multiple

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

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

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL3, NODULE NOT FOUND AT TRIM

Animal Note: TGL3, NODULE NOT FOUND AT TRIM

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 600

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 100/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 868990

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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	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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 601

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869021

**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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 602

**TRT#:** 18  
**DOSE:** MNNG 500/BPO 20

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 111  
**HISTO:** 869022

**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
		Inflammation	Chronic Active, Marked
		Inflammation	Chronic Active, Marked
	SOA-Mass	Squamous Cell Carcinoma	
	SOA-Mass	Squamous Cell Carcinoma	
		Ulcer	Marked
		Ulcer	Marked

[ Acanthosis TGLS = 1-2 ]  
[ Acanthosis TGLS = 1-2 ]  
[ Acanthosis TGLS = 1-2 ]  
[ Acanthosis TGLS = 1-2 ]  
[ Squamous Cell Carcinoma TGLS = 2-3 ]  
[ Squamous Cell Carcinoma TGLS = 2-3 ]  
[ Ulcer TGLS = 3-4 ]  
[ Ulcer TGLS = 3-4 ]

**PRIMARY CAUSE OF DEATH** -

Animal Note: TGL4, ALOPECIA NOT APPARENT AT TRIM OR ON MICRO  
Animal Note: TGL4, ALOPECIA NOT APPARENT AT TRIM OR ON MICRO

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 603

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869023

**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, Minimal
SOA-No Mass	Inflammation	Chronic Active, Minimal

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 604

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869024

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 605

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869025

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 606

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869026

---

**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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 607

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869027

---

**OBSERVATIONS**

\* Skin

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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 608

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869028

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 609

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869029

---

**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**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 610

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 307

**DOSE:** MNNG 500/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869030

**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-Mass, Subcut Tiss	Sarcoma	
SOA-Mass, Subcut Tiss	Sarcoma	
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

[ Sarcoma TGLS = 1-3 ]

[ Sarcoma TGLS = 1-3 ]

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

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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 611

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869031

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 612

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 346

**DOSE:** MNNG 500/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869032

---

**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, Subcut Tiss

Sarcoma

SOA-Mass, Subcut Tiss

Sarcoma

[ Acanthosis TGLS = 2-2 ]

[ Acanthosis TGLS = 2-2 ]

[ Sarcoma TGLS = 1-3 ]

[ Sarcoma TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 613

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869033

**OBSERVATIONS**

* Skin	Control	Acanthosis	Minimal
	Control	Acanthosis	Minimal
	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	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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 614

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869034

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-Mass	Acanthosis	Marked
SOA-Mass	Acanthosis	Marked
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

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 615

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869035

---

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 616

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869036

---

**OBSERVATIONS**

\* Skin

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

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 617

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 181

**DOSE:** MNNG 500/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869037

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
SOA-No Mass	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Moderate
	Alopecia	
	Alopecia	
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	Moderate
SOA-No Mass	Ulcer	Moderate
	Ulcer	Moderate
	Ulcer	Moderate

[ Acanthosis TGLS = 5-5 ]

[ Acanthosis TGLS = 5-5 ]

[ Acanthosis TGLS = 5-5 ]

[ Acanthosis TGLS = 5-5 ]

[ Alopecia TGLS = 4-3 ]

[ Alopecia TGLS = 4-3 ]

[ Squamous Cell Carcinoma TGLS = 1-2 ]

[ Squamous Cell Carcinoma TGLS = 1-2 ]

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

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

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

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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 618

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869038

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 619

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869039

---

**OBSERVATIONS**

* Skin	Control	Acanthosis	Minimal
	Control	Acanthosis	Minimal
	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

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 620

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869040

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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	Sarcoma	
SOA-Mass	Sarcoma	
SOA-Mass	Squamous Cell Papilloma	Multiple
SOA-Mass	Squamous Cell Papilloma	Multiple

[ Sarcoma TGLS = 3-5 ]

[ Sarcoma TGLS = 3-5 ]

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

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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 621

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 250

**DOSE:** MNNG 500/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869041

**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	

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Squamous Cell Carcinoma TGLS = 2-3 ]

[ Squamous Cell Carcinoma TGLS = 2-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 622

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 289

**DOSE:** MNNG 500/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869042

**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 Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 623

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869043

---

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

[ Acanthosis TGLS = 1-3 ]

[ Acanthosis TGLS = 1-3 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 624

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 251

**DOSE:** MNNG 500/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869044

**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, Subcut Tiss	Sarcoma	
SOA-Mass, Subcut Tiss	Sarcoma	

[ Sarcoma TGLS = 1-3 ]

[ Sarcoma TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 625

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869045

---

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 626

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869046

---

**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

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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 627

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869047

---

**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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 628

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869048

---

**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 629

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869049

**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 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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 630

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG 500/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869050

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Skin

\* Skin

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 631

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 314

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869081

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

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

Moderate

Ulcer

Moderate

[ Acanthosis TGLS = 2-3 ]

[ Acanthosis TGLS = 2-3 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Ulcer TGLS = 4-4 ]

[ Ulcer TGLS = 4-4 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: TGL3, NOT COMPLETE LESION AS IN SLIDE 3

Animal Note: TGL3, NOT COMPLETE LESION AS IN SLIDE 3

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 632

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 71

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869082

**OBSERVATIONS**

\* Skin

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, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

Control

Ulcer

Moderate

Control

Ulcer

Moderate

[ Ulcer TGLS = 1-1 ]

[ Ulcer TGLS = 1-1 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 633

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 229

**DOSE:** MNNG1000/BPO 20

**DISP:** Natural Death

**HISTO:** 869083

**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	

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

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

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

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

[ Inflammation TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

[ Squamous Cell Carcinoma TGLS = 1-4 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 634

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869084

**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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 635

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 341

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869085

**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

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

[ Acanthosis TGLS = 3-2 ]

[ Acanthosis TGLS = 3-2 ]

[ 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: TGL4, ALOPECIA NOT SEEN AT TRIM OR ON MICRO

Animal Note: TGL4, ALOPECIA NOT SEEN AT TRIM OR ON MICRO

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 636

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 194

**DOSE:** MNNG1000/BPO 20

**DISP:** Natural Death

**HISTO:** 869086

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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
SOA-Mass	Squamous Cell Carcinoma	
SOA-Mass	Squamous Cell Carcinoma	
SOA-No Mass	Ulcer	Moderate
SOA-No Mass	Ulcer	Moderate
	Ulcer	Moderate
	Ulcer	Moderate

[ Acanthosis TGLS = 9-2,5-3,2-4,4-4,3-8,6-6 ]

[ Acanthosis TGLS = 9-2,5-3,2-4,4-4,3-8,6-6 ]

[ Acanthosis TGLS = 9-2,5-3,2-4,4-4,3-8,6-6 ]

[ Acanthosis TGLS = 9-2,5-3,2-4,4-4,3-8,6-6 ]

[ Acanthosis TGLS = 9-2,5-3,2-4,4-4,3-8,6-6 ]

[ Acanthosis TGLS = 9-2,5-3,2-4,4-4,3-8,6-6 ]

[ Squamous Cell Carcinoma TGLS = 1-5 ]

[ Squamous Cell Carcinoma TGLS = 1-5 ]

[ Ulcer TGLS = 7-6,8-7 ]

[ Ulcer TGLS = 7-6,8-7 ]

[ Ulcer TGLS = 7-6,8-7 ]

[ Ulcer TGLS = 7-6,8-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 637

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869087

**OBSERVATIONS**

* Skin	Control	Acanthosis	Minimal
	Control	Acanthosis	Minimal
	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	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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 638

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869088

**OBSERVATIONS**

* Skin	Control	Acanthosis	Minimal
	Control	Acanthosis	Minimal
	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

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 639

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869089

---

**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

Squamous Cell Papilloma

SOA-Mass

Squamous Cell Papilloma

[ Squamous Cell Papilloma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 1-3 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 640

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 362

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869090

**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 = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

[ Ulcer TGLS = 1-2 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 641

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869091

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**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

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 642

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869092

---

**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

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 643

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 209

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869093

**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**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 644

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869094

**OBSERVATIONS**

* Skin	Control	Acanthosis	Minimal
	Control	Acanthosis	Minimal
	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-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**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 645

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 14

**DOSE:** MNNG1000/BPO 20

**DISP:** Natural Death

**HISTO:** 869095

**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

[ 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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 646

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 197

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869096

**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
SOA-No Mass	Ulcer	Marked
SOA-No Mass	Ulcer	Marked

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

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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 647

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 314

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869097

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Moderate
Control	Acanthosis	Moderate
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Acanthosis	Marked
SOA-No Mass	Inflammation	Chronic Active, Minimal
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-No Mass	Inflammation	Chronic Active, Minimal
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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 648

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 306

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869098

**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, Mild
SOA-No Mass	Inflammation	Chronic Active, Mild
SOA-Mass, Subcut Tiss	Sarcoma	
SOA-Mass, Subcut Tiss	Sarcoma	

[ Sarcoma TGLS = 1-3 ]

[ Sarcoma TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 649

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869099

**OBSERVATIONS**

\* Skin

Control	Acanthosis	Minimal
Control	Acanthosis	Minimal
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, 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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 650

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 174

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869100

**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

Inflammation

Chronic Active, Moderate

Inflammation

Chronic Active, Moderate

SOA-No Mass

Ulcer

Marked

SOA-No Mass

Ulcer

Marked

Ulcer

Marked

Ulcer

Marked

[ Acanthosis TGLS = 3-3 ]

[ Acanthosis TGLS = 3-3 ]

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

[ Ulcer 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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 651

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 174

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869101

**OBSERVATIONS**

\* Skin

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

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Acanthosis TGLS = 1-2 ]

[ Squamous Cell Carcinoma TGLS = 3-4 ]

[ Squamous Cell Carcinoma TGLS = 3-4 ]

[ Ulcer TGLS = 2-3 ]

[ Ulcer TGLS = 2-3 ]

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 652

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 363

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869102

**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

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 653

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869103

**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	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:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 654

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 244

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869104

**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 = 1-3 ]

[ Sarcoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-4 ]

[ Ulcer TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 655

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 198

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869105

**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

Moderate

SOA-No Mass

Ulcer

Moderate

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Squamous Cell Carcinoma TGLS = 1-3 ]

[ Ulcer TGLS = 2-4 ]

[ Ulcer TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 656

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869106

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**OBSERVATIONS**

\* Skin

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Acanthosis

Marked

SOA-No Mass

Inflammation

Chronic Active, Mild

SOA-No Mass

Inflammation

Chronic Active, Mild

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

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

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 657

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869107

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**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

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**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:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 658

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 364

**DOSE:** MNNG1000/BPO 20

**DISP:** Terminal Sacrifice

**HISTO:** 869108

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**OBSERVATIONS**

\* Skin

SOA-Mass, Subcut Tiss

Sarcoma

SOA-Mass, Subcut Tiss

Sarcoma

SOA-Mass

Squamous Cell Papilloma

SOA-Mass

Squamous Cell Papilloma

[ Sarcoma TGLS = 1-3 ]

[ Sarcoma TGLS = 1-3 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

[ Squamous Cell Papilloma TGLS = 2-4 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 659

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 154

**DOSE:** MNNG1000/BPO 20

**DISP:** Natural Death

**HISTO:** 869109

**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
	Inflammation	Chronic Active, Moderate
	Inflammation	Chronic Active, Moderate
	Ulcer	Moderate
	Ulcer	Moderate

[ Ulcer TGLS = 1-3 ]

[ Ulcer TGLS = 1-3 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05117-06  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/SENCAR

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 19:48:34  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 660

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 259

**DOSE:** MNNG1000/BPO 20

**DISP:** Moribund Sacrifice

**HISTO:** 869110

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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, Subcut Tiss

Sarcoma

SOA-Mass, Subcut Tiss

Sarcoma

[ Sarcoma TGLS = 1-3 ]

[ Sarcoma TGLS = 1-3 ]

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PRIMARY CAUSE OF DEATH

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**\*\* END OF REPORT \*\***

\* PROTOCOL REQUIRED TISSUE