

**Experiment Number:** 05117-04  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 06:23:14  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**C Number:** C61994A  
**Lock Date:** 04/07/1992  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Both  
**PWG Approval Date:** 04/27/1994

**Experiment Number:** 05117-04  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 06:23:14  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**Male MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

<b>DOSE = VEHICLE CONTROL</b>													
TOTAL 30		UNCENSORED DEATHS 0			CENSORED DEATHS 0			TERMINAL 30					
<b>UNCENSORED DEATH DAYS</b>													
none													
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = TPA 5 COMPLETE</b>													
TOTAL 30		UNCENSORED DEATHS 0			CENSORED DEATHS 0			TERMINAL 30					
<b>UNCENSORED DEATH DAYS</b>													
none													
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = MNNG 100/ACETONE</b>													
TOTAL 30		UNCENSORED DEATHS 0			CENSORED DEATHS 0			TERMINAL 30					
<b>UNCENSORED DEATH DAYS</b>													
none													
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = MNNG100/COMPLETE</b>													
TOTAL 30		UNCENSORED DEATHS 14			CENSORED DEATHS 0			TERMINAL 16					
<b>UNCENSORED DEATH DAYS</b>													
245	258	282	282	282	293	304	318	330	330	330	343	343	353
<b>CENSORED DEATH DAYS</b>													
none													

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

Experiment Number: 05117-04

Test Type: INIT/PROMOT

Route: SKIN APPLICATION

Species/Strain: Mouse/B6C3F1

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

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

CAS Number: INIT/PROM

Date Report Requested: 10/21/2014

Time Report Requested: 06:23:14

First Dose M/F: NA / NA

Lab: BAT

Male MOUSE  
FIRST TERMINAL SACRIFICE AT 363 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = MNNG 100/TPA 5												
TOTAL 30												
UNCENSORED DEATHS 1			CENSORED DEATHS 0				TERMINAL 29					
UNCENSORED DEATH DAYS												
343												
CENSORED DEATH DAYS												
none												
DOSE = MNNG 500/ACETONE												
TOTAL 30												
UNCENSORED DEATHS 1			CENSORED DEATHS 0				TERMINAL 29					
UNCENSORED DEATH DAYS												
266												
CENSORED DEATH DAYS												
none												
DOSE = MNNG1000/ACETONE												
TOTAL 30												
UNCENSORED DEATHS 2			CENSORED DEATHS 0				TERMINAL 28					
UNCENSORED DEATH DAYS												
212 318												
CENSORED DEATH DAYS												
none												
DOSE = MNNG1000/TPA 5												
TOTAL 30												
UNCENSORED DEATHS 14			CENSORED DEATHS 0				TERMINAL 16					
UNCENSORED DEATH DAYS												
165 195 227 227 227 266 266 268 282 304 318 318 343 349												
CENSORED DEATH DAYS												
none												

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

**Experiment Number:** 05117-04  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 06:23:14  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**Male MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

<b>DOSE = BPO 20 COMPLETE</b>			
TOTAL 30	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 30
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			
<b>DOSE = MNNG 100/BPO 20</b>			
TOTAL 30	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 30
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			
<b>DOSE = MNNG 500/BPO 20</b>			
TOTAL 30	UNCENSORED DEATHS 1	CENSORED DEATHS 0	TERMINAL 29
<b>UNCENSORED DEATH DAYS</b>			
343			
<b>CENSORED DEATH DAYS</b>			
none			
<b>DOSE = MNNG1000/BPO 20</b>			
TOTAL 30	UNCENSORED DEATHS 2	CENSORED DEATHS 0	TERMINAL 28
<b>UNCENSORED DEATH DAYS</b>			
290      290			
<b>CENSORED DEATH DAYS</b>			
none			

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

**Experiment Number:** 05117-04  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 06:23:14  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**Male MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**

**KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)**

DOSE	TIME (DAYS)										
	37	74	111	148	185	222	259	296	333	363(A)	
VEHICLE CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TPA 5 COMPLETE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MNNG 100/ACETONE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MNNG100/COMPLETE	100.0	100.0	100.0	100.0	100.0	100.0	93.3	80.0	63.3	53.3	
MNNG 100/TPA 5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.7
MNNG 500/ACETONE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.7	96.7	96.7	96.7
MNNG1000/ACETONE	100.0	100.0	100.0	100.0	100.0	96.7	96.7	96.7	93.3	93.3	
MNNG1000/TPA 5	100.0	100.0	100.0	100.0	96.7	93.3	83.3	70.0	60.0	53.3	
BPO 20 COMPLETE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MNNG 100/BPO 20	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MNNG 500/BPO 20	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.7
MNNG1000/BPO 20	100.0	100.0	100.0	100.0	100.0	100.0	100.0	93.3	93.3	93.3	

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

**Experiment Number:** 05117-04  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 06:23:14  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**Male MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**

**SURVIVAL SUMMARY STATISTICS**

DOSE	VEHICLE CONTROL	TPA 5 COMPLETE	MNNG 100/ACETONE	MNNG100/COMPLETE
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	100.0%	100.0%	100.0%	53.3%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.005N	-----	-----	P=0.000
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	.	.	.	306.6
	(.)	(.)	(.)	(9.0)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	363.0	363.0	363.0	336.7
	(0.0)	(0.0)	(0.0)	(6.6)

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

**Experiment Number:** 05117-04  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 06:23:14  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**Male MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**

**SURVIVAL SUMMARY STATISTICS**

<b>DOSE</b>	<b>MNNG 100/TPA 5</b>	<b>MNNG 500/ACETONE</b>	<b>MNNG1000/ACETONE</b>	<b>MNNG1000/TPA 5</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	96.7%	96.7%	93.3%	53.3%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=1.000	P=1.000	P=0.472	P=0.000
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	343.0 (.)	266.0 (.)	265.0 (53.0)	268.2 (14.8)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	362.3 (0.7)	359.8 (3.2)	356.5 (5.2)	318.8 (11.1)

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

**Experiment Number:** 05117-04  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 06:23:14  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**Male MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**

**SURVIVAL SUMMARY STATISTICS**

DOSE	BPO 20 COMPLETE	MNNG 100/BPO 20	MNNG 500/BPO 20	MNNG1000/BPO 20
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	100.0%	100.0%	96.7%	93.3%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	-----	-----	P=1.000	P=0.476
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	.	.	343.0	290.0
	(.)	(.)	(.)	(.)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	363.0	363.0	362.3	358.1
	(0.0)	(0.0)	(0.7)	(3.4)

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)



**Experiment Number:** 05117-04  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 06:23:14  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**Female MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

DOSE = VEHICLE CONTROL													
TOTAL 30		UNCENSORED DEATHS 0				CENSORED DEATHS 0				TERMINAL 30			
<b>UNCENSORED DEATH DAYS</b>													
none													
<b>CENSORED DEATH DAYS</b>													
none													
DOSE = TPA 5 COMPLETE													
TOTAL 30		UNCENSORED DEATHS 0				CENSORED DEATHS 0				TERMINAL 30			
<b>UNCENSORED DEATH DAYS</b>													
none													
<b>CENSORED DEATH DAYS</b>													
none													
DOSE = MNNG 100/ACETONE													
TOTAL 30		UNCENSORED DEATHS 0				CENSORED DEATHS 0				TERMINAL 30			
<b>UNCENSORED DEATH DAYS</b>													
none													
<b>CENSORED DEATH DAYS</b>													
none													
DOSE = MNNG100/COMPLETE													
TOTAL 30		UNCENSORED DEATHS 17				CENSORED DEATHS 0				TERMINAL 13			
<b>UNCENSORED DEATH DAYS</b>													
189	268	268	281	281	282	290	308	308	311	318	318	330	336
339	343	343											
<b>CENSORED DEATH DAYS</b>													
none													

- (A) FIRST TERMINAL SACRIFICE
- (B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".
- (C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE
- (D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

**Experiment Number:** 05117-04  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 06:23:14  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**Female MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

<b>DOSE = MNNG 100/TPA 5</b>									
TOTAL 30		UNCENSORED DEATHS 0			CENSORED DEATHS 1			TERMINAL 29	
<b>UNCENSORED DEATH DAYS</b>									
none									
<b>CENSORED DEATH DAYS</b>									
77									
<b>DOSE = MNNG 500/ACETONE</b>									
TOTAL 30		UNCENSORED DEATHS 0			CENSORED DEATHS 0			TERMINAL 30	
<b>UNCENSORED DEATH DAYS</b>									
none									
<b>CENSORED DEATH DAYS</b>									
none									
<b>DOSE = MNNG1000/ACETONE</b>									
TOTAL 30		UNCENSORED DEATHS 7			CENSORED DEATHS 0			TERMINAL 23	
<b>UNCENSORED DEATH DAYS</b>									
177	177	245	282	298	304	349			
<b>CENSORED DEATH DAYS</b>									
none									
<b>DOSE = MNNG1000/TPA 5</b>									
TOTAL 30		UNCENSORED DEATHS 8			CENSORED DEATHS 0			TERMINAL 22	
<b>UNCENSORED DEATH DAYS</b>									
12	170	212	268	282	290	330	338		
<b>CENSORED DEATH DAYS</b>									
none									

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

**Experiment Number:** 05117-04  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 06:23:14  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**Female MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

<b>DOSE = BPO 20 COMPLETE</b>			
TOTAL 30	UNCENSORED DEATHS 1	CENSORED DEATHS 0	TERMINAL 29
<b>UNCENSORED DEATH DAYS</b>			
315			
<b>CENSORED DEATH DAYS</b>			
none			
<b>DOSE = MNNG 100/BPO 20</b>			
TOTAL 30	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 30
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			
<b>DOSE = MNNG 500/BPO 20</b>			
TOTAL 30	UNCENSORED DEATHS 2	CENSORED DEATHS 1	TERMINAL 27
<b>UNCENSORED DEATH DAYS</b>			
248	353		
<b>CENSORED DEATH DAYS</b>			
306			
<b>DOSE = MNNG1000/BPO 20</b>			
TOTAL 30	UNCENSORED DEATHS 5	CENSORED DEATHS 0	TERMINAL 25
<b>UNCENSORED DEATH DAYS</b>			
134	227	254	258 343
<b>CENSORED DEATH DAYS</b>			
none			

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

Experiment Number: 05117-04  
 Test Type: INIT/PROMOT  
 Route: SKIN APPLICATION  
 Species/Strain: Mouse/B6C3F1

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA  
 Test Compound: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
 CAS Number: INIT/PROM

Date Report Requested: 10/21/2014  
 Time Report Requested: 06:23:14  
 First Dose M/F: NA / NA  
 Lab: BAT

Female MOUSE  
 FIRST TERMINAL SACRIFICE AT 363 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	37	74	111	148	185	222	259	296	333	363(A)
VEHICLE CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TPA 5 COMPLETE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MNNG 100/ACETONE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MNNG100/COMPLETE	100.0	100.0	100.0	100.0	100.0	96.7	96.7	76.7	56.7	43.3
MNNG 100/TPA 5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MNNG 500/ACETONE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MNNG1000/ACETONE	100.0	100.0	100.0	100.0	93.3	93.3	90.0	86.7	80.0	76.7
MNNG1000/TPA 5	96.7	96.7	96.7	96.7	93.3	90.0	90.0	80.0	76.7	73.3
BPO 20 COMPLETE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.7	96.7
MNNG 100/BPO 20	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MNNG 500/BPO 20	100.0	100.0	100.0	100.0	100.0	100.0	96.7	96.7	96.7	93.2
MNNG1000/BPO 20	100.0	100.0	100.0	96.7	96.7	96.7	86.7	86.7	86.7	83.3

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

**Experiment Number:** 05117-04  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 06:23:14  
**First Dose M/F:** NA / NA  
**Lab:** BAT

Female MOUSE  
 FIRST TERMINAL SACRIFICE AT 363 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	VEHICLE CONTROL	TPA 5 COMPLETE	MNNG 100/ACETONE	MNNG100/COMPLETE
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	100.0%	100.0%	100.0%	43.3%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.133N	-----	-----	P=0.000
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	. (.)	. (.)	. (.)	300.8 (9.4)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	363.0 (0.0)	363.0 (0.0)	363.0 (0.0)	327.7 (7.8)

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

**Experiment Number:** 05117-04  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 06:23:14  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**Female MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**

**SURVIVAL SUMMARY STATISTICS**

DOSE	MNNG 100/TPA 5	MNNG 500/ACETONE	MNNG1000/ACETONE	MNNG1000/TPA 5
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	100.0%	100.0%	76.7%	73.3%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	-----	-----	P=0.016	P=0.008
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	.	.	261.7 (24.8)	237.8 (37.9)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	353.5 (9.5)	363.0 (0.0)	339.4 (9.6)	329.6 (14.1)

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

**Experiment Number:** 05117-04  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 06:23:14  
**First Dose M/F:** NA / NA  
**Lab:** BAT

Female MOUSE  
 FIRST TERMINAL SACRIFICE AT 363 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	BPO 20 COMPLETE	MNNG 100/BPO 20	MNNG 500/BPO 20	MNNG1000/BPO 20
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	96.7%	100.0%	93.2%	83.3%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=1.000	-----	P=0.464	P=0.062
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	315.0 (.)	. (.)	300.5 (52.5)	243.2 (33.5)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	361.4 (1.6)	363.0 (0.0)	356.9 (4.2)	343.0 (9.7)

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

**Experiment Number:** 05117-04  
**Test Type:** INIT/PROMOT  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)  
**CAS Number:** INIT/PROM

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 06:23:14  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**\*\* END OF REPORT \*\***

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)