

Experiment Number: 05117-05
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/CD-1 CRL

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

Date Report Requested: 10/19/2014
Time Report Requested: 17:39:45
First Dose M/F: NA / NA
Lab: BAT

C Number:	C61994B
Lock Date:	04/09/1992
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	04/28/1994

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Lab: BAT

Male MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = VEHICLE CONTROL													
TOTAL 30			UNCENSORED DEATHS 3			CENSORED DEATHS 0			TERMINAL 27				
UNCENSORED DEATH DAYS													
158	207	313											
CENSORED DEATH DAYS													
none													
DOSE = TPA 5 COMPLETE													
TOTAL 30			UNCENSORED DEATHS 13			CENSORED DEATHS 0			TERMINAL 17				
UNCENSORED DEATH DAYS													
5	63	195	231	257	266	266	275	295	295	295	320	357	
CENSORED DEATH DAYS													
none													
DOSE = MNNG 100/TPA 5													
TOTAL 30			UNCENSORED DEATHS 20			CENSORED DEATHS 0			TERMINAL 10				
UNCENSORED DEATH DAYS													
85	176	181	230	230	235	259	259	271	272	284	295	296	299
313	313	325	335	336	348								
CENSORED DEATH DAYS													
none													
DOSE = MNNG1000/TPA 5													
TOTAL 30			UNCENSORED DEATHS 26			CENSORED DEATHS 0			TERMINAL 4				
UNCENSORED DEATH DAYS													
128	168	173	175	175	175	176	195	197	224	227	231	236	236
243	243	246	249	271	293	293	293	299	299	306	334		
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)

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Lab: BAT

Male MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = MNNG 100/ACETONE													
TOTAL 30		UNCENSORED DEATHS 2				CENSORED DEATHS 0				TERMINAL 28			
UNCENSORED DEATH DAYS													
139	224												
CENSORED DEATH DAYS													
none													
DOSE = MNNG100/COMPLETE													
TOTAL 30		UNCENSORED DEATHS 16				CENSORED DEATHS 0				TERMINAL 14			
UNCENSORED DEATH DAYS													
36	219	230	243	285	293	306	314	320	327	335	341	348	348
348	348												
CENSORED DEATH DAYS													
none													
DOSE = MNNG 100/BPO 20													
TOTAL 30		UNCENSORED DEATHS 4				CENSORED DEATHS 0				TERMINAL 26			
UNCENSORED DEATH DAYS													
220	272	313	320										
CENSORED DEATH DAYS													
none													
DOSE = MNNG 100/TPA 5													
TOTAL 30		UNCENSORED DEATHS 20				CENSORED DEATHS 0				TERMINAL 10			
UNCENSORED DEATH DAYS													
85	176	181	230	230	235	259	259	271	272	284	295	296	299
313	313	325	335	336	348								
CENSORED DEATH DAYS													
none													

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 Species/Strain: Mouse/CD-1 CRL

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 Lab: BAT

Male MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = MNNG1000/TPA 5													
TOTAL 30			UNCENSORED DEATHS 26				CENSORED DEATHS 0			TERMINAL 4			
UNCENSORED DEATH DAYS													
128	168	173	175	175	175	176	195	197	224	227	231	236	236
243	243	246	249	271	293	293	293	299	299	306	334		
CENSORED DEATH DAYS													
none													
DOSE = MNNG 500/ACETONE													
TOTAL 30			UNCENSORED DEATHS 13				CENSORED DEATHS 0			TERMINAL 17			
UNCENSORED DEATH DAYS													
58	175	176	195	224	238	257	259	294	302	314	341	357	
CENSORED DEATH DAYS													
none													
DOSE = MNNG 500/BPO 20													
TOTAL 30			UNCENSORED DEATHS 12				CENSORED DEATHS 0			TERMINAL 18			
UNCENSORED DEATH DAYS													
46	87	173	175	215	246	284	306	313	334	335	341		
CENSORED DEATH DAYS													
none													
DOSE = MNNG1000/BPO 20													
TOTAL 30			UNCENSORED DEATHS 22				CENSORED DEATHS 0			TERMINAL 8			
UNCENSORED DEATH DAYS													
126	174	175	195	197	197	200	219	224	229	238	246	258	277
285	296	299	300	306	327	348	357						
CENSORED DEATH DAYS													
none													

- (A) FIRST TERMINAL SACRIFICE
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First Dose M/F: NA / NA
Lab: BAT

Male MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = MNNG1000/ACETONE													
TOTAL 30			UNCENSORED DEATHS 21				CENSORED DEATHS 0			TERMINAL 9			
UNCENSORED DEATH DAYS													
113	175	175	175	175	179	187	189	195	207	214	215	230	236
271	280	292	292	299	306	335							
CENSORED DEATH DAYS													
none													
DOSE = BPO 20 COMPLETE													
TOTAL 30			UNCENSORED DEATHS 10				CENSORED DEATHS 0			TERMINAL 20			
UNCENSORED DEATH DAYS													
215	231	256	258	272	285	313	334	335	348				
CENSORED DEATH DAYS													
none													
DOSE = MNNG 100/BPO 20													
TOTAL 30			UNCENSORED DEATHS 4				CENSORED DEATHS 0			TERMINAL 26			
UNCENSORED DEATH DAYS													
220	272	313	320										
CENSORED DEATH DAYS													
none													
DOSE = MNNG 500/BPO 20													
TOTAL 30			UNCENSORED DEATHS 12				CENSORED DEATHS 0			TERMINAL 18			
UNCENSORED DEATH DAYS													
46	87	173	175	215	246	284	306	313	334	335	341		
CENSORED DEATH DAYS													
none													

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

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Lab: BAT

Male MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = MNNG1000/BPO 20													
TOTAL 30			UNCENSORED DEATHS 22				CENSORED DEATHS 0			TERMINAL 8			
UNCENSORED DEATH DAYS													
126	174	175	195	197	197	200	219	224	229	238	246	258	277
285	296	299	300	306	327	348	357						
CENSORED DEATH DAYS													
none													

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FIRST TERMINAL SACRIFICE AT 362 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	37	74	111	148	185	222	259	296	333	362(A)
VEHICLE CONTROL	100.0	100.0	100.0	100.0	96.7	93.3	93.3	93.3	90.0	90.0
TPA 5 COMPLETE	96.7	93.3	93.3	93.3	93.3	90.0	83.3	63.3	60.0	56.7
MNNG 100/TPA 5	100.0	100.0	96.7	96.7	90.0	90.0	73.3	56.7	43.3	33.3
MNNG1000/TPA 5	100.0	100.0	100.0	96.7	76.7	70.0	40.0	26.7	16.7	13.3
MNNG 100/ACETONE	100.0	100.0	100.0	96.7	96.7	96.7	93.3	93.3	93.3	93.3
MNNG100/COMPLETE	96.7	96.7	96.7	96.7	96.7	93.3	86.7	80.0	66.7	46.7
MNNG 100/BPO 20	100.0	100.0	100.0	100.0	100.0	96.7	96.7	93.3	86.7	86.7
MNNG 100/TPA 5	100.0	100.0	96.7	96.7	90.0	90.0	73.3	56.7	43.3	33.3
MNNG1000/TPA 5	100.0	100.0	100.0	96.7	76.7	70.0	40.0	26.7	16.7	13.3
MNNG 500/ACETONE	100.0	96.7	96.7	96.7	90.0	86.7	73.3	70.0	63.3	56.7
MNNG 500/BPO 20	100.0	96.7	93.3	93.3	86.7	83.3	80.0	76.7	70.0	60.0
MNNG1000/BPO 20	100.0	100.0	100.0	96.7	90.0	73.3	56.7	46.7	33.3	26.7
MNNG1000/ACETONE	100.0	100.0	100.0	96.7	80.0	60.0	53.3	40.0	33.3	30.0
BPO 20 COMPLETE	100.0	100.0	100.0	100.0	100.0	96.7	86.7	80.0	76.7	66.7
MNNG 100/BPO 20	100.0	100.0	100.0	100.0	100.0	96.7	96.7	93.3	86.7	86.7
MNNG 500/BPO 20	100.0	96.7	93.3	93.3	86.7	83.3	80.0	76.7	70.0	60.0
MNNG1000/BPO 20	100.0	100.0	100.0	96.7	90.0	73.3	56.7	46.7	33.3	26.7

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Male MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	VEHICLE CONTROL	TPA 5 COMPLETE	MNNG 100/TPA 5	MNNG1000/TPA 5
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	90.0%	56.7%	33.3%	13.3%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	226.0 (45.7)	240.0 (27.8)	267.1 (14.3)	234.0 (10.4)
MEAN LIFE SPAN (D) (STANDARD ERROR)	348.4 (8.5)	309.1 (16.3)	298.7 (12.7)	251.1 (12.2)

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Male MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	MNNG 100/ACETONE	MNNG100/COMPLETE	MNNG 100/BPO 20	MNNG 100/TPA 5
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	93.3%	46.7%	86.7%	33.3%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	181.5 (42.5)	290.1 (20.1)	281.3 (21.3)	267.1 (14.3)
MEAN LIFE SPAN (D) (STANDARD ERROR)	350.0 (8.6)	323.6 (12.5)	351.2 (5.8)	298.7 (12.7)

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Male MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	MNNG1000/TPA 5	MNNG 500/ACETONE	MNNG 500/BPO 20	MNNG1000/BPO 20
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	13.3%	56.7%	60.0%	26.7%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	234.0 (10.4)	245.4 (22.7)	237.9 (28.2)	248.8 (12.9)
MEAN LIFE SPAN (D) (STANDARD ERROR)	251.1 (12.2)	311.5 (14.4)	312.4 (15.9)	279.0 (13.3)

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Lab: BAT

Male MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	MNNG1000/ACETONE	BPO 20 COMPLETE	MNNG 100/BPO 20	MNNG 500/BPO 20
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	30.0%	66.7%	86.7%	60.0%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	225.7 (12.7)	284.7 (14.6)	281.3 (21.3)	237.9 (28.2)
MEAN LIFE SPAN (D) (STANDARD ERROR)	266.6 (14.6)	336.2 (8.2)	351.2 (5.8)	312.4 (15.9)

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Male MOUSE
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SURVIVAL SUMMARY STATISTICS

DOSE	MNNG1000/BPO 20
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	26.7%
SIGNIFICANCE (B) (LIFE TABLE)	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	248.8 (12.9)
MEAN LIFE SPAN (D) (STANDARD ERROR)	279.0 (13.3)

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Female MOUSE
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INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = VEHICLE CONTROL													
TOTAL 30													
UNCENSORED DEATHS 3			CENSORED DEATHS 0				TERMINAL 27						
UNCENSORED DEATH DAYS													
335	347	360											
CENSORED DEATH DAYS													
none													
DOSE = TPA 5 COMPLETE													
TOTAL 30													
UNCENSORED DEATHS 5			CENSORED DEATHS 0				TERMINAL 25						
UNCENSORED DEATH DAYS													
194	219	221	300	360									
CENSORED DEATH DAYS													
none													
DOSE = MNNG 100/TPA 5													
TOTAL 30													
UNCENSORED DEATHS 8			CENSORED DEATHS 0				TERMINAL 22						
UNCENSORED DEATH DAYS													
113	273	286	300	300	315	326	350						
CENSORED DEATH DAYS													
none													
DOSE = MNNG1000/TPA 5													
TOTAL 30													
UNCENSORED DEATHS 15			CENSORED DEATHS 0				TERMINAL 15						
UNCENSORED DEATH DAYS													
47	133	139	179	195	197	231	237	251	258	266	314	314	321
341													
CENSORED DEATH DAYS													
none													

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Lab: BAT

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INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = MNNG 100/ACETONE													
TOTAL 30			UNCENSORED DEATHS 1				CENSORED DEATHS 0				TERMINAL 29		
UNCENSORED DEATH DAYS													
154													
CENSORED DEATH DAYS													
none													
DOSE = MNNG100/COMPLETE													
TOTAL 30			UNCENSORED DEATHS 11				CENSORED DEATHS 0				TERMINAL 19		
UNCENSORED DEATH DAYS													
287 292 293			313	316	321	326	335	347	347	347			
CENSORED DEATH DAYS													
none													
DOSE = MNNG 100/TPA 5													
TOTAL 30			UNCENSORED DEATHS 8				CENSORED DEATHS 0				TERMINAL 22		
UNCENSORED DEATH DAYS													
113 273 286			300	300	315	326	350						
CENSORED DEATH DAYS													
none													
DOSE = MNNG1000/TPA 5													
TOTAL 30			UNCENSORED DEATHS 15				CENSORED DEATHS 0				TERMINAL 15		
UNCENSORED DEATH DAYS													
47 133 139			179	195	197	231	237	251	258	266	314	314	321
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: 05117-05
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/CD-1 CRL

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

Date Report Requested: 10/19/2014
Time Report Requested: 17:39:45
First Dose M/F: NA / NA
Lab: BAT

Female MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = MNNG 500/ACETONE												
TOTAL 30		UNCENSORED DEATHS 3			CENSORED DEATHS 0			TERMINAL 27				
UNCENSORED DEATH DAYS												
42	175	257										
CENSORED DEATH DAYS												
none												
DOSE = MNNG 100/BPO 20												
TOTAL 30		UNCENSORED DEATHS 2			CENSORED DEATHS 0			TERMINAL 28				
UNCENSORED DEATH DAYS												
176	251											
CENSORED DEATH DAYS												
none												
DOSE = MNNG 500/BPO 20												
TOTAL 30		UNCENSORED DEATHS 10			CENSORED DEATHS 0			TERMINAL 20				
UNCENSORED DEATH DAYS												
154	214	219	224	230	241	251	286	314	347			
CENSORED DEATH DAYS												
none												
DOSE = MNNG1000/BPO 20												
TOTAL 30		UNCENSORED DEATHS 13			CENSORED DEATHS 0			TERMINAL 17				
UNCENSORED DEATH DAYS												
48	137	151	169	207	214	215	266	284	293	293	326	347
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: 05117-05
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/CD-1 CRL

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

Date Report Requested: 10/19/2014
Time Report Requested: 17:39:45
First Dose M/F: NA / NA
Lab: BAT

Female MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = MNNG1000/ACETONE													
TOTAL 30			UNCENSORED DEATHS 15				CENSORED DEATHS 0				TERMINAL 15		
UNCENSORED DEATH DAYS													
43	81	95	151	183	194	214	219	229	230	230	267	267	316
335													
CENSORED DEATH DAYS													
none													
DOSE = BPO 20 COMPLETE													
TOTAL 30			UNCENSORED DEATHS 1				CENSORED DEATHS 0				TERMINAL 29		
UNCENSORED DEATH DAYS													
321													
CENSORED DEATH DAYS													
none													
DOSE = MNNG 100/BPO 20													
TOTAL 30			UNCENSORED DEATHS 2				CENSORED DEATHS 0				TERMINAL 28		
UNCENSORED DEATH DAYS													
176	251												
CENSORED DEATH DAYS													
none													
DOSE = MNNG 500/BPO 20													
TOTAL 30			UNCENSORED DEATHS 10				CENSORED DEATHS 0				TERMINAL 20		
UNCENSORED DEATH DAYS													
154	214	219	224	230	241	251	286	314	347				
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: 05117-05
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/CD-1 CRL

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

Date Report Requested: 10/19/2014
Time Report Requested: 17:39:45
First Dose M/F: NA / NA
Lab: BAT

Female MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = MNNG1000/BPO 20												
TOTAL 30			UNCENSORED DEATHS 13				CENSORED DEATHS 0			TERMINAL 17		
UNCENSORED DEATH DAYS												
48	137	151	169	207	214	215	266	284	293	293	326	347
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: 05117-05
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/CD-1 CRL

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

Date Report Requested: 10/19/2014
Time Report Requested: 17:39:45
First Dose M/F: NA / NA
Lab: BAT

Female MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)										
	37	74	111	148	185	222	259	296	333	362(A)	
VEHICLE CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	90.0
TPA 5 COMPLETE	100.0	100.0	100.0	100.0	100.0	90.0	90.0	90.0	86.7	83.3	
MNNG 100/TPA 5	100.0	100.0	100.0	96.7	96.7	96.7	96.7	90.0	76.7	73.3	
MNNG1000/TPA 5	100.0	96.7	96.7	90.0	86.7	80.0	66.7	63.3	53.3	50.0	
MNNG 100/ACETONE	100.0	100.0	100.0	100.0	96.7	96.7	96.7	96.7	96.7	96.7	
MNNG100/COMPLETE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	90.0	76.7	63.3	
MNNG 100/TPA 5	100.0	100.0	100.0	96.7	96.7	96.7	96.7	90.0	76.7	73.3	
MNNG1000/TPA 5	100.0	96.7	96.7	90.0	86.7	80.0	66.7	63.3	53.3	50.0	
MNNG 500/ACETONE	100.0	96.7	96.7	96.7	93.3	93.3	90.0	90.0	90.0	90.0	
MNNG 100/BPO 20	100.0	100.0	100.0	100.0	96.7	96.7	93.3	93.3	93.3	93.3	
MNNG 500/BPO 20	100.0	100.0	100.0	100.0	96.7	90.0	76.7	73.3	70.0	66.7	
MNNG1000/BPO 20	100.0	96.7	96.7	93.3	86.7	76.7	76.7	63.3	60.0	56.7	
MNNG1000/ACETONE	100.0	96.7	90.0	90.0	83.3	73.3	63.3	56.7	53.3	50.0	
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	96.7	96.7	93.3	93.3	93.3	93.3	
MNNG 500/BPO 20	100.0	100.0	100.0	100.0	96.7	90.0	76.7	73.3	70.0	66.7	
MNNG1000/BPO 20	100.0	96.7	96.7	93.3	86.7	76.7	76.7	63.3	60.0	56.7	

(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: 05117-05
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/CD-1 CRL

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

Date Report Requested: 10/19/2014
Time Report Requested: 17:39:45
First Dose M/F: NA / NA
Lab: BAT

Female MOUSE
 FIRST TERMINAL SACRIFICE AT 362 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	VEHICLE CONTROL	TPA 5 COMPLETE	MNNG 100/TPA 5	MNNG1000/TPA 5
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	90.0%	83.3%	73.3%	50.0%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	347.3 (7.2)	258.8 (30.9)	282.9 (24.8)	228.2 (20.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	360.5 (1.0)	344.8 (8.5)	340.9 (9.2)	295.1 (16.2)

(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: 05117-05
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/CD-1 CRL

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

Date Report Requested: 10/19/2014
Time Report Requested: 17:39:45
First Dose M/F: NA / NA
Lab: BAT

Female MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	MNNG 100/ACETONE	MNNG100/COMPLETE	MNNG 100/TPA 5	MNNG1000/TPA 5
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	96.7%	63.3%	73.3%	50.0%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	154.0 (.)	320.4 (6.8)	282.9 (24.8)	228.2 (20.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	355.1 (6.9)	346.7 (4.4)	340.9 (9.2)	295.1 (16.2)

(A) FIRST TERMINAL SACRIFICE

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

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

Experiment Number: 05117-05
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/CD-1 CRL

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

Date Report Requested: 10/19/2014
Time Report Requested: 17:39:45
First Dose M/F: NA / NA
Lab: BAT

Female MOUSE
 FIRST TERMINAL SACRIFICE AT 362 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	MNNG 500/ACETONE	MNNG 100/BPO 20	MNNG 500/BPO 20	MNNG1000/BPO 20
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	90.0%	93.3%	66.7%	56.7%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	158.0 (62.6)	213.5 (30.6)	248.0 (17.0)	226.9 (23.2)
MEAN LIFE SPAN (D) (STANDARD ERROR)	341.6 (12.5)	352.1 (7.1)	324.0 (11.4)	303.5 (16.0)

(A) FIRST TERMINAL SACRIFICE

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

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

Experiment Number: 05117-05
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/CD-1 CRL

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

Date Report Requested: 10/19/2014
Time Report Requested: 17:39:45
First Dose M/F: NA / NA
Lab: BAT

Female MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	MNNG1000/ACETONE	BPO 20 COMPLETE	MNNG 100/BPO 20	MNNG 500/BPO 20
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	50.0%	96.7%	93.3%	66.7%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	203.6 (21.4)	321.0 (.)	213.5 (30.6)	248.0 (17.0)
MEAN LIFE SPAN (D) (STANDARD ERROR)	282.8 (18.1)	360.6 (1.4)	352.1 (7.1)	324.0 (11.4)

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

Experiment Number: 05117-05
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/CD-1 CRL

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

Date Report Requested: 10/19/2014
Time Report Requested: 17:39:45
First Dose M/F: NA / NA
Lab: BAT

Female MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	MNNG1000/BPO 20
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	56.7%
SIGNIFICANCE (B) (LIFE TABLE)	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	226.9 (23.2)
MEAN LIFE SPAN (D) (STANDARD ERROR)	303.5 (16.0)

(A) FIRST TERMINAL SACRIFICE

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

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

Experiment Number: 05117-05
Test Type: INIT/PROMOT
Route: SKIN APPLICATION
Species/Strain: Mouse/CD-1 CRL

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

Date Report Requested: 10/19/2014
Time Report Requested: 17:39:45
First Dose M/F: NA / NA
Lab: BAT

**** END OF REPORT ****

(A) FIRST TERMINAL SACRIFICE

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

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