

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

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

Date Report Requested: 10/18/2014
Time Report Requested: 19:46:20
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

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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 1	CENSORED DEATHS 0	TERMINAL 29
UNCENSORED DEATH DAYS			
123			
CENSORED DEATH DAYS			
none			
DOSE = MNNG 100/TPA 5			
TOTAL 30	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 0
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			
DOSE = MNNG1000/TPA 5			
TOTAL 30	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 0
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			
DOSE = MNNG 100/ACETONE			
TOTAL 30	UNCENSORED DEATHS 2	CENSORED DEATHS 0	TERMINAL 28
UNCENSORED DEATH DAYS			
288	327		
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 = MNNG100/COMPLETE													
TOTAL 30			UNCENSORED DEATHS 26			CENSORED DEATHS 0			TERMINAL 4				
UNCENSORED DEATH DAYS													
137	174	174	206	245	245	252	252	259	259	259	261	266	273
286	288	288	296	303	303	303	314	314	316	327	341		
CENSORED DEATH DAYS													
none													
DOSE = MNNG 100/BPO 20													
TOTAL 30			UNCENSORED DEATHS 2			CENSORED DEATHS 0			TERMINAL 28				
UNCENSORED DEATH DAYS													
249	296												
CENSORED DEATH DAYS													
none													
DOSE = MNNG1000/BPO 20													
TOTAL 30			UNCENSORED DEATHS 24			CENSORED DEATHS 0			TERMINAL 6				
UNCENSORED DEATH DAYS													
105	111	122	128	154	163	175	181	195	209	209	213	217	242
244	245	250	268	268	303	314	316	316	327				
CENSORED DEATH DAYS													
none													
DOSE = MNNG 100/TPA 5													
TOTAL 30			UNCENSORED DEATHS 0			CENSORED DEATHS 0			TERMINAL 0				
UNCENSORED DEATH DAYS													
none													
CENSORED DEATH DAYS													
none													

- (A) FIRST TERMINAL SACRIFICE
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Lab: BAT

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

DOSE = MNNG 500/ACETONE													
TOTAL 30			UNCENSORED DEATHS 14				CENSORED DEATHS 0			TERMINAL 16			
UNCENSORED DEATH DAYS													
44	159	181	190	209	217	222	244	245	251	259	283	331	348
CENSORED DEATH DAYS													
none													
DOSE = MNNG 500/BPO 20													
TOTAL 30			UNCENSORED DEATHS 14				CENSORED DEATHS 0			TERMINAL 16			
UNCENSORED DEATH DAYS													
162	168	189	203	207	210	217	220	225	228	259	268	286	341
CENSORED DEATH DAYS													
none													
DOSE = MNNG1000/ACETONE													
TOTAL 30			UNCENSORED DEATHS 23				CENSORED DEATHS 0			TERMINAL 7			
UNCENSORED DEATH DAYS													
37	79	114	122	131	131	155	168	169	175	181	184	197	197
203	211	217	250	259	268	289	292	356					
CENSORED DEATH DAYS													
none													
DOSE = MNNG1000/TPA 5													
TOTAL 30			UNCENSORED DEATHS 0				CENSORED DEATHS 0			TERMINAL 0			
UNCENSORED DEATH DAYS													
none													
CENSORED DEATH DAYS													
none													

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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 = BPO 20 COMPLETE													
TOTAL 30													
UNCENSORED DEATHS 3													
CENSORED DEATHS 0													
TERMINAL 27													
UNCENSORED DEATH DAYS													
155	209	294											
CENSORED DEATH DAYS													
none													
DOSE = MNNG 100/BPO 20													
TOTAL 30													
UNCENSORED DEATHS 2													
CENSORED DEATHS 0													
TERMINAL 28													
UNCENSORED DEATH DAYS													
249	296												
CENSORED DEATH DAYS													
none													
DOSE = MNNG 500/BPO 20													
TOTAL 30													
UNCENSORED DEATHS 14													
CENSORED DEATHS 0													
TERMINAL 16													
UNCENSORED DEATH DAYS													
162	168	189	203	207	210	217	220	225	228	259	268	286	341
CENSORED DEATH DAYS													
none													
DOSE = MNNG1000/BPO 20													
TOTAL 30													
UNCENSORED DEATHS 24													
CENSORED DEATHS 0													
TERMINAL 6													
UNCENSORED DEATH DAYS													
105	111	122	128	154	163	175	181	195	209	209	213	217	242
244	245	250	268	268	303	314	316	316	327				
CENSORED DEATH DAYS													
none													

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Male 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	96.7	96.7	96.7	96.7	96.7	96.7	96.7
MNNG 100/TPA 5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MNNG1000/TPA 5	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	96.7	93.3	93.3
MNNG100/COMPLETE	100.0	100.0	100.0	96.7	90.0	86.7	63.3	40.0	16.7	13.3
MNNG 100/BPO 20	100.0	100.0	100.0	100.0	100.0	100.0	96.7	93.3	93.3	93.3
MNNG1000/BPO 20	100.0	100.0	93.3	86.7	73.3	56.7	43.3	36.7	20.0	20.0
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	96.7	96.7	96.7	90.0	76.7	63.3	60.0	56.7	53.3
MNNG 500/BPO 20	100.0	100.0	100.0	100.0	93.3	73.3	63.3	56.7	56.7	53.3
MNNG1000/ACETONE	96.7	96.7	93.3	80.0	60.0	43.3	36.7	26.7	26.7	23.3
MNNG1000/TPA 5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
BPO 20 COMPLETE	100.0	100.0	100.0	100.0	96.7	93.3	93.3	90.0	90.0	90.0
MNNG 100/BPO 20	100.0	100.0	100.0	100.0	100.0	100.0	96.7	93.3	93.3	93.3
MNNG 500/BPO 20	100.0	100.0	100.0	100.0	93.3	73.3	63.3	56.7	56.7	53.3
MNNG1000/BPO 20	100.0	100.0	93.3	86.7	73.3	56.7	43.3	36.7	20.0	20.0

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

Male MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	VEHICLE CONTROL	MNNG 100/TPA 5	MNNG1000/TPA 5	MNNG 100/ACETONE
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	96.7%	100.0%	100.0%	93.3%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	123.0 (.)	. (.)	. (.)	307.5 (19.5)
MEAN LIFE SPAN (D) (STANDARD ERROR)	354.0 (8.0)	. (.)	. (.)	358.4 (2.7)

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Lab: BAT

Male MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	MNNG100/COMPLETE	MNNG 100/BPO 20	MNNG1000/BPO 20	MNNG 100/TPA 5
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	13.3%	93.3%	20.0%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	267.0 (9.7)	272.5 (19.2)	219.8 (13.8)	. (.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	279.6 (10.3)	356.0 (4.3)	248.2 (15.4)	. (.)

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Male MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	MNNG 500/ACETONE	MNNG 500/BPO 20	MNNG1000/ACETONE	MNNG1000/TPA 5
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	53.3%	53.3%	23.3%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	227.4 (20.0)	227.4 (12.5)	190.7 (15.3)	. (.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	299.2 (15.5)	299.2 (13.8)	230.6 (17.8)	. (.)

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Male MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	BPO 20 COMPLETE	MNNG 100/BPO 20	MNNG 500/BPO 20	MNNG1000/BPO 20
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	90.0%	93.3%	53.3%	20.0%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	219.3 (40.5)	272.5 (19.2)	227.4 (12.5)	219.8 (13.8)
MEAN LIFE SPAN (D) (STANDARD ERROR)	347.7 (8.6)	356.0 (4.3)	299.2 (13.8)	248.2 (15.4)

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Lab: BAT

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

DOSE = VEHICLE CONTROL			
TOTAL 30	UNCENSORED DEATHS 3	CENSORED DEATHS 1	TERMINAL 26
UNCENSORED DEATH DAYS			
300	306	330	
CENSORED DEATH DAYS			
126			
DOSE = TPA 5 COMPLETE			
TOTAL 30	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 0
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			
DOSE = MNNG 100/TPA 5			
TOTAL 30	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 0
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			
DOSE = MNNG1000/TPA 5			
TOTAL 30	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 0
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			

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

DOSE = MNNG 100/ACETONE													
TOTAL 30		UNCENSORED DEATHS 0				CENSORED DEATHS 0				TERMINAL 30			
UNCENSORED DEATH DAYS													
none													
CENSORED DEATH DAYS													
none													
DOSE = MNNG100/COMPLETE													
TOTAL 30		UNCENSORED DEATHS 27				CENSORED DEATHS 0				TERMINAL 3			
UNCENSORED DEATH DAYS													
168	170	198	210	217	225	263	264	268	268	286	286	286	288
289	289	306	306	307	312	312	314	316	324	341	341	347	
CENSORED DEATH DAYS													
none													
DOSE = MNNG 100/BPO 20													
TOTAL 30		UNCENSORED DEATHS 1				CENSORED DEATHS 0				TERMINAL 29			
UNCENSORED DEATH DAYS													
184													
CENSORED DEATH DAYS													
none													
DOSE = MNNG1000/BPO 20													
TOTAL 30		UNCENSORED DEATHS 16				CENSORED DEATHS 0				TERMINAL 14			
UNCENSORED DEATH DAYS													
14	71	154	174	174	194	197	198	209	229	244	259	306	314
314	341												
CENSORED DEATH DAYS													
none													

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INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = MNNG 100/TPA 5													
TOTAL 30		UNCENSORED DEATHS 0				CENSORED DEATHS 0				TERMINAL 0			
UNCENSORED DEATH DAYS													
none													
CENSORED DEATH DAYS													
none													
DOSE = MNNG 500/ACETONE													
TOTAL 30		UNCENSORED DEATHS 8				CENSORED DEATHS 0				TERMINAL 22			
UNCENSORED DEATH DAYS													
48	174	179	209	245	250	273	283						
CENSORED DEATH DAYS													
none													
DOSE = MNNG 500/BPO 20													
TOTAL 30		UNCENSORED DEATHS 7				CENSORED DEATHS 0				TERMINAL 23			
UNCENSORED DEATH DAYS													
111	181	250	251	289	307	346							
CENSORED DEATH DAYS													
none													
DOSE = MNNG1000/ACETONE													
TOTAL 30		UNCENSORED DEATHS 19				CENSORED DEATHS 0				TERMINAL 11			
UNCENSORED DEATH DAYS													
111	119	132	146	148	154	174	197	238	245	247	250	257	286
288	289	303	346	354									
CENSORED DEATH DAYS													
none													

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

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

DOSE = MNNG1000/TPA 5			
TOTAL 30	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 0
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			
DOSE = BPO 20 COMPLETE			
TOTAL 30	UNCENSORED DEATHS 3	CENSORED DEATHS 0	TERMINAL 27
UNCENSORED DEATH DAYS			
110	355	358	
CENSORED DEATH DAYS			
none			
DOSE = MNNG 100/BPO 20			
TOTAL 30	UNCENSORED DEATHS 1	CENSORED DEATHS 0	TERMINAL 29
UNCENSORED DEATH DAYS			
184			
CENSORED DEATH DAYS			
none			
DOSE = MNNG 500/BPO 20			
TOTAL 30	UNCENSORED DEATHS 7	CENSORED DEATHS 0	TERMINAL 23
UNCENSORED DEATH DAYS			
111	181	250	251 289 307 346
CENSORED DEATH DAYS			
none			

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

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

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

DOSE = MNNG1000/BPO 20													
TOTAL 30			UNCENSORED DEATHS 16				CENSORED DEATHS 0				TERMINAL 14		
UNCENSORED DEATH DAYS													
14	71	154	174	174	194	197	198	209	229	244	259	306	314
314	341												
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	100.0	100.0	100.0	100.0	89.7	89.7
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/TPA 5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MNNG1000/TPA 5	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	93.3	83.3	80.0	46.7	20.0	10.0
MNNG 100/BPO 20	100.0	100.0	100.0	100.0	96.7	96.7	96.7	96.7	96.7	96.7
MNNG1000/BPO 20	96.7	93.3	93.3	93.3	83.3	70.0	60.0	60.0	50.0	46.7
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	96.7	96.7	96.7	90.0	86.7	80.0	73.3	73.3	73.3
MNNG 500/BPO 20	100.0	100.0	96.7	96.7	93.3	93.3	86.7	83.3	80.0	76.7
MNNG1000/ACETONE	100.0	100.0	96.7	83.3	76.7	73.3	56.7	46.7	43.3	36.7
MNNG1000/TPA 5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
BPO 20 COMPLETE	100.0	100.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	90.0
MNNG 100/BPO 20	100.0	100.0	100.0	100.0	96.7	96.7	96.7	96.7	96.7	96.7
MNNG 500/BPO 20	100.0	100.0	96.7	96.7	93.3	93.3	86.7	83.3	80.0	76.7
MNNG1000/BPO 20	96.7	93.3	93.3	93.3	83.3	70.0	60.0	60.0	50.0	46.7

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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)	89.7%	100.0%	100.0%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	312.0 (9.2)	. (.)	. (.)	. (.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	349.1 (8.2)	. (.)	. (.)	. (.)

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Date Report Requested: 10/18/2014
Time Report Requested: 19:46:20
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/BPO 20	MNNG1000/BPO 20
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	10.0%	96.7%	46.7%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	.	277.8	184.0	212.0
	(.)	(9.6)	(.)	(21.6)
MEAN LIFE SPAN (D) (STANDARD ERROR)	362.0	286.2	356.1	282.0
	(0.0)	(9.8)	(5.9)	(18.1)

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Female MOUSE
 FIRST TERMINAL SACRIFICE AT 362 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	MNNG 100/TPA 5	MNNG 500/ACETONE	MNNG 500/BPO 20	MNNG1000/ACETONE
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	73.3%	76.7%	36.7%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	. (.)	207.6 (26.9)	247.9 (28.9)	225.5 (17.5)
MEAN LIFE SPAN (D) (STANDARD ERROR)	. (.)	320.8 (14.4)	335.4 (11.1)	275.5 (16.4)

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Species/Strain: Mouse/SENCAR

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Female MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	MNNG1000/TPA 5	BPO 20 COMPLETE	MNNG 100/BPO 20	MNNG 500/BPO 20
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	90.0%	96.7%	76.7%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	. (.)	274.3 (82.2)	184.0 (.)	247.9 (28.9)
MEAN LIFE SPAN (D) (STANDARD ERROR)	. (.)	353.2 (8.4)	356.1 (5.9)	335.4 (11.1)

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Lab: BAT

Female MOUSE
FIRST TERMINAL SACRIFICE AT 362 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	MNNG1000/BPO 20
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	46.7%
SIGNIFICANCE (B) (LIFE TABLE)	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	212.0 (21.6)
MEAN LIFE SPAN (D) (STANDARD ERROR)	282.0 (18.1)

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**** END OF REPORT ****

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