

Experiment Number: 96013-04
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Melatonin
CAS Number: 73-31-4

Date Report Requested: 10/21/2014
Time Report Requested: 08:47:07
First Dose M/F: NA / NA
Lab: BAT

C Number:	C96013
Lock Date:	02/28/2003
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

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Lab: BAT

Male RAT
FIRST TERMINAL SACRIFICE AT 94 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 UG/KG			
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			

DOSE = 5 UG/KG			
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			

DOSE = 50 UG/KG			
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			

DOSE = 5000 UG/KG			
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
none			
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 RAT
FIRST TERMINAL SACRIFICE AT 94 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 50,000 UG/KG

TOTAL 10 UNCENSORED DEATHS 0 CENSORED DEATHS 0 TERMINAL 10

UNCENSORED DEATH DAYS

none

CENSORED DEATH DAYS

none

DOSE = 200,000 UG/KG

TOTAL 10 UNCENSORED DEATHS 0 CENSORED DEATHS 0 TERMINAL 10

UNCENSORED DEATH DAYS

none

CENSORED DEATH DAYS

none

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

Male RAT
FIRST TERMINAL SACRIFICE AT 94 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	10	20	30	40	50	60	70	80	90	94(A)
0 UG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5 UG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50 UG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5000 UG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50,000 UG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200,000 UG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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

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

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

Male RAT
FIRST TERMINAL SACRIFICE AT 94 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 UG/KG	5 UG/KG	50 UG/KG	5000 UG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	100.0%	100.0%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	. (.)	. (.)	. (.)	. (.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	94.0 (0.0)	94.0 (0.0)	94.0 (0.0)	94.0 (0.0)

(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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Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Test Compound: Melatonin
CAS Number: 73-31-4

Date Report Requested: 10/21/2014
Time Report Requested: 08:47:07
First Dose M/F: NA / NA
Lab: BAT

Male RAT
FIRST TERMINAL SACRIFICE AT 94 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	50,000 UG/KG	200,000 UG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	. (.)	. (.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	94.0 (0.0)	94.0 (0.0)

(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".

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Test Type: 90-DAY
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P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Test Compound: Melatonin
CAS Number: 73-31-4

Date Report Requested: 10/21/2014
Time Report Requested: 08:47:07
First Dose M/F: NA / NA
Lab: BAT

Female RAT
FIRST TERMINAL SACRIFICE AT 94 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 UG/KG			
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			

DOSE = 5 UG/KG			
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			

DOSE = 50 UG/KG			
TOTAL 10	UNCENSORED DEATHS 1	CENSORED DEATHS 0	TERMINAL 9
UNCENSORED DEATH DAYS			
7			
CENSORED DEATH DAYS			
none			

DOSE = 5000 UG/KG			
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			

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

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Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Melatonin
CAS Number: 73-31-4

Date Report Requested: 10/21/2014
Time Report Requested: 08:47:07
First Dose M/F: NA / NA
Lab: BAT

Female RAT
FIRST TERMINAL SACRIFICE AT 94 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 50,000 UG/KG

TOTAL 10 UNCENSORED DEATHS 0 CENSORED DEATHS 0 TERMINAL 10

UNCENSORED DEATH DAYS

none

CENSORED DEATH DAYS

none

DOSE = 200,000 UG/KG

TOTAL 10 UNCENSORED DEATHS 0 CENSORED DEATHS 0 TERMINAL 10

UNCENSORED DEATH DAYS

none

CENSORED DEATH DAYS

none

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

Female RAT
FIRST TERMINAL SACRIFICE AT 94 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	10	20	30	40	50	60	70	80	90	94(A)
0 UG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5 UG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50 UG/KG	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5000 UG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50,000 UG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200,000 UG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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Lab: BAT

Female RAT
 FIRST TERMINAL SACRIFICE AT 94 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 UG/KG	5 UG/KG	50 UG/KG	5000 UG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	100.0%	90.0%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=1.000N	-----	P=1.000	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	.	.	7.0	.
	(.)	(.)	(.)	(.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	94.0	94.0	85.3	94.0
	(0.0)	(0.0)	(8.7)	(0.0)

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

**Female RAT
FIRST TERMINAL SACRIFICE AT 94 DAYS**

SURVIVAL SUMMARY STATISTICS

DOSE	50,000 UG/KG	200,000 UG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	. (.)	. (.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	94.0 (0.0)	94.0 (0.0)

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**** END OF REPORT ****

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