

Experiment Number: 99037 - 03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: RATS/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
alpha/beta Thujone mixture
CAS Number: 76231-76-0

Date Report Requested: 09/20/2016
Time Report Requested: 11:43:53
First Dose M/F: 08/13/02 / 08/12/02
Lab: SRI

NTP Study Number: C99037B
Lock Date: 04/04/2003
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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MALE RATS

FIRST TERMINAL SACRIFICE AT 93 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 MG/KG

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 12.5 MG/KG

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 25 MG/KG

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 50 MG/KG

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

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MALE RATS

FIRST TERMINAL SACRIFICE AT 93 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 75 MG/KG

TOTAL 10

UNCENSORED DEATHS 2

CENSORED DEATHS 0

TERMINAL 8

UNCENSORED DEATH DAYS

56 57

CENSORED DEATH DAYS

None

DOSE = 100 MG/KG

TOTAL 10

UNCENSORED DEATHS 8

CENSORED DEATHS 0

TERMINAL 2

UNCENSORED DEATH DAYS

56 77 84 84 84 85 85 92

CENSORED DEATH DAYS

None

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MALE RATS

FIRST TERMINAL SACRIFICE AT 93 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	10	20	30	40	50	60	70	80	90	93(A)
0 MG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
12.5 MG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
25 MG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50 MG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
75 MG/KG	100.0	100.0	100.0	100.0	100.0	80.0	80.0	80.0	80.0	80.0
100 MG/KG	100.0	100.0	100.0	100.0	100.0	90.0	90.0	80.0	30.0	20.0

(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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Lab: SRI

MALE RATS

FIRST TERMINAL SACRIFICE AT 93 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 MG/KG	12.5 MG/KG	25 MG/KG	50 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	100.0%	100.0%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	----	----	----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	(.)	(.)	(.)	(.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	93.0 (0.0)	93.0 (0.0)	93.0 (0.0)	93.0 (0.0)

DOSE	75 MG/KG	100 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	80.0%	20.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.456	P=0.001
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	56.5 (0.5)	80.9 (3.8)
MEAN LIFE SPAN (D) (STANDARD ERROR)	85.7 (4.9)	83.3 (3.4)

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 93 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 MG/KG

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 12.5 MG/KG

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 25 MG/KG

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 50 MG/KG

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 93 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 75 MG/KG

TOTAL 10

UNCENSORED DEATHS 8

CENSORED DEATHS 0

TERMINAL 2

UNCENSORED DEATH DAYS

43 43 43 44 57 58 64 86

CENSORED DEATH DAYS

None

DOSE = 100 MG/KG

TOTAL 10

UNCENSORED DEATHS 9

CENSORED DEATHS 0

TERMINAL 1

UNCENSORED DEATH DAYS

17 29 36 37 37 78 81 86 91

CENSORED DEATH DAYS

None

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25 MG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50 MG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
75 MG/KG	100.0	100.0	100.0	100.0	60.0	40.0	30.0	30.0	20.0	20.0
100 MG/KG	100.0	90.0	80.0	50.0	50.0	50.0	50.0	40.0	20.0	10.0

(A) FIRST TERMINAL SACRIFICE

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SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	100.0%	100.0%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	----	----	----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	(.)	(.)	(.)	(.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	93.0 (0.0)	93.0 (0.0)	93.0 (0.0)	93.0 (0.0)

DOSE	75 MG/KG	100 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	20.0%	10.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.001	P<0.001
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	54.8 (5.4)	54.7 (9.6)
MEAN LIFE SPAN (D) (STANDARD ERROR)	62.4 (6.6)	58.5 (9.4)

*** END OF REPORT ***

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

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