

**TDMS No.** 99037 - 05  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** RATS/F 344/N

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 09/09/2010  
**Time Report Requested:** 12:54:37  
**First Dose M/F:** 06/09/03 / 06/09/03  
**Lab:** SRI

Spec. Run excl. high dose

<b>C Number:</b>	C99037B		
<b>Lock Date:</b>	11/20/2006		
<b>Cage Range:</b>	ALL		
<b>Date Range:</b>	ALL		
<b>Reasons For Removal:</b>	ALL		
<b>Removal Date Range:</b>	ALL		
<b>Treatment Groups:</b>	Include 001 0 MG/KG	Include 002 0 MG/KG	Include 003 12.5 MG/KG
	Include 004 12.5 MG/KG	Include 005 25 MG/KG	Include 006 25 MG/KG
<b>Study Gender:</b>	Both		
<b>TDMSE Version:</b>	2.2.0		

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**MALE RATS**

FIRST TERMINAL SACRIFICE AT 729 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = 0 MG/KG**

TOTAL 50	UNCENSORED DEATHS 21							CENSORED DEATHS 2					TERMINAL 27
UNCENSORED DEATH DAYS													
356	367	540	540	540	570	575	612	615	634	656	659	674	677
677	677	689	702	704	716	716							
CENSORED DEATH DAYS													
163	370												

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**DOSE = 12.5 MG/KG**

TOTAL 50	UNCENSORED DEATHS 25							CENSORED DEATHS 0					TERMINAL 25
UNCENSORED DEATH DAYS													
299	477	519	556	599	603	610	610	610	617	626	626	662	668
677	677	689	702	702	708	716	716	716	716	726			
CENSORED DEATH DAYS													
None													

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**DOSE = 25 MG/KG**

TOTAL 50	UNCENSORED DEATHS 32							CENSORED DEATHS 1					TERMINAL 17
UNCENSORED DEATH DAYS													
163	270	313	394	404	407	450	485	500	532	540	598	599	608
612	615	631	635	637	652	652	655	659	663	668	677	677	689
702	706	708	718										
CENSORED DEATH DAYS													
485													

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**MALE RATS**

FIRST TERMINAL SACRIFICE AT 729 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	729(A)
0 MG/KG	100.0	100.0	100.0	98.0	95.9	95.9	89.7	85.5	75.1	56.3
12.5 MG/KG	100.0	100.0	100.0	98.0	98.0	96.0	94.0	88.0	74.0	50.0
25 MG/KG	100.0	98.0	96.0	94.0	88.0	84.0	77.9	73.8	51.2	34.8

(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)

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**MALE RATS**

FIRST TERMINAL SACRIFICE AT 729 DAYS

<b>SURVIVAL SUMMARY STATISTICS</b>			
<b>DOSE</b>	<b>0 MG/KG</b>	<b>12.5 MG/KG</b>	<b>25 MG/KG</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	56.3%	50.0%	34.8%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.019	P=0.754	P=0.027
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	614.1 (22.3)	633.1 (19.1)	569.3 (24.9)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	662.2 (17.1)	681.0 (11.7)	621.9 (19.4)

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**FEMALE RATS**

FIRST TERMINAL SACRIFICE AT 729 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = 0 MG/KG**

TOTAL 50	UNCENSORED DEATHS 15					CENSORED DEATHS 0					TERMINAL 35				
UNCENSORED DEATH DAYS															
452	462	499	545	547	566	579	623	631	652	659	662	677	677		
689															
CENSORED DEATH DAYS															
None															

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**DOSE = 12.5 MG/KG**

TOTAL 50	UNCENSORED DEATHS 17					CENSORED DEATHS 0					TERMINAL 33				
UNCENSORED DEATH DAYS															
127	412	422	452	508	508	540	540	568	601	603	660	663	688		
689	689	721													
CENSORED DEATH DAYS															
None															

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**DOSE = 25 MG/KG**

TOTAL 50	UNCENSORED DEATHS 31					CENSORED DEATHS 0					TERMINAL 19				
UNCENSORED DEATH DAYS															
179	183	257	275	338	351	390	431	449	485	488	494	500	500		
513	513	547	579	607	616	617	652	652	661	667	681	699	702		
714	716	727													
CENSORED DEATH DAYS															
None															

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**FEMALE RATS**

FIRST TERMINAL SACRIFICE AT 729 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	729(A)
0 MG/KG	100.0	100.0	100.0	100.0	100.0	96.0	92.0	86.0	76.0	70.0
12.5 MG/KG	100.0	98.0	98.0	98.0	94.0	92.0	84.0	78.0	74.0	66.0
25 MG/KG	100.0	98.0	94.0	88.0	86.0	80.0	68.0	64.0	52.0	38.0

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SURVIVAL SUMMARY STATISTICS			
DOSE	0 MG/KG	12.5 MG/KG	25 MG/KG
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	70.0%	66.0%	38.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.001	P=0.770	P=0.001
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	594.7 (20.6)	552.4 (35.6)	522.0 (28.8)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	688.7 (10.7)	669.0 (16.8)	600.7 (22.8)

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

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