

**TDMS No.** 95011-07  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** RATS/F 344

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
5-(HYDROXYMETHYL)-2-FURFURAL  
**CAS Number:** 67-47-0  
**Pathologist:** TOFT, J. - Unknown, U.  
F1\_R2

**Date Report Reqsted:** 09/01/2006  
**Time Report Reqsted:** 8:29:53  
**First Dose M/F:** 03/06/02 / 03/07/02  
**Lab:** BAT

**C Number:** C95011B  
**Lock Date:** 11/09/2004  
**Cage Range:** 1 - 9999  
**Date Range:** 1-JAN-1940 to 17-SEP-2040  
**Reasons For Removal:** ALL  
**Removal Date Range:** JAN /1 /1940 - SEP /17 /2040  
**Treatment Groups:** Include 1 0 MG/KG  
Include 4 188 MG/KG  
Include 7 750 MG/KG

Include 2 0 MG/KG  
Include 5 375 MG/KG  
Include 8 750 MG/KG

Include 3 188 MG/KG  
Include 6 375 MG/KG

TDMS No. 95011-07  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA  
5-(HYDROXYMETHYL)-2-FURFURAL  
CAS Number: 67-47-0  
Pathologist: TOFT, J. - Unknown, U.

Date Report Requested: 09/01/2006  
Time Report Requested: 8:29:53  
First Dose M/F: 03/06/02 / 03/07/02  
Lab: BAT

**MALE RATS**  
FIRST TERMINAL SACRIFICE AT 727 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

---

**DOSE = 0 MG/KG**

TOTAL 50	UNCENSORED DEATHS 28	CENSORED DEATHS 0	TERMINAL 22
UNCENSORED DEATHS			
489 517 519	532 541 582 589 590	603 609 616 629 629	636
646 666 666	669 674 674 678 693	695 695 700 701 707	712
CENSORED DEATHS			
None			

---

**DOSE = 188 MG/KG**

TOTAL 50	UNCENSORED DEATHS 16	CENSORED DEATHS 0	TERMINAL 34
UNCENSORED DEATHS			
366 436 548	587 589 616 654 671	672 692 693 698 700	714
720 724			
CENSORED DEATHS			
None			

---

**DOSE = 375 MG/KG**

TOTAL 50	UNCENSORED DEATHS 18	CENSORED DEATHS 1	TERMINAL 31
UNCENSORED DEATHS			
483 490 591	603 605 610 610 623	634 648 664 671 671	672
688 693 707	720		
CENSORED DEATHS			
179			

---

**DOSE = 750 MG/KG**

TOTAL 50	UNCENSORED DEATHS 14	CENSORED DEATHS 1	TERMINAL 35
UNCENSORED DEATHS			

**TDMS No.** 95011-07  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** RATS/F 344

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
5-(HYDROXYMETHYL)-2-FURFURAL  
**CAS Number:** 67-47-0  
**Pathologist:** TOFT, J. - Unknown, U.

**Date Report Reqsted:** 09/01/2006  
**Time Report Reqsted:** 8:29:53  
**First Dose M/F:** 03/06/02 / 03/07/02  
**Lab:** BAT

**MALE RATS**

FIRST TERMINAL SACRIFICE AT 727 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

301 533 573 594 601 654 664 673 674 692 701 706 720 720  
CENSORED DEATHS  
349

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
 5-(HYDROXYMETHYL)-2-FURFURAL  
**CAS Number:** 67-47-0  
**Pathologist:** TOFT, J. - Unknown, U.  
**MALE RATS**  
 FIRST TERMINAL SACRIFICE AT 727 DAYS

**Date Report Reqsted:** 09/01/2006  
**Time Report Reqsted:** 8:29:53  
**First Dose M/F:** 03/06/02 / 03/07/02  
**Lab:** BAT

**KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)**

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	727(A)
<b>0 MG/KG</b>	100.0	100.0	100.0	100.0	100.0	100.0	90.0	82.0	70.0	44.0
<b>188 MG/KG</b>	100.0	100.0	100.0	100.0	98.0	96.0	96.0	90.0	86.0	68.0
<b>375 MG/KG</b>	100.0	100.0	100.0	100.0	100.0	98.0	95.9	89.8	77.6	63.3
<b>750 MG/KG</b>	100.0	100.0	100.0	98.0	98.0	98.0	96.0	89.8	85.8	71.5

- (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)

TDMS No. 95011-07  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA  
5-(HYDROXYMETHYL)-2-FURFURAL  
CAS Number: 67-47-0  
Pathologist: TOFT, J. - Unknown, U.  
**MALE RATS**  
FIRST TERMINAL SACRIFICE AT 727 DAYS

Date Report Requested: 09/01/2006  
Time Report Requested: 8:29:53  
First Dose M/F: 03/06/02 / 03/07/02  
Lab: BAT

SURVIVAL SUMMARY STATISTICS				
DOSE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	44.0%	68.0%	63.3%	71.5%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.019N	P=0.018N	P=0.085N	P=0.007N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	630.6 (12.3)	630.0 (26.1)	632.4 (15.4)	629.0 (29.6)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	673.0 (9.7)	696.0 (10.4)	682.0 (13.3)	692.0 (12.4)

- (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)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:29:53  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

**FEMALE RATS**  
 FIRST TERMINAL SACRIFICE AT 728 DAYS  
 INDIVIDUAL SURVIVAL TIMES (DAYS)

---

**DOSE = 0 MG/KG**

TOTAL 50	UNCENSORED DEATHS 19	CENSORED DEATHS 0	TERMINAL 31
UNCENSORED DEATHS			
198 455 474	503 554 555 599 609	609 612 645 656	663 665
695 719 719	719 719		
CENSORED DEATHS			
None			

---

**DOSE = 188 MG/KG**

TOTAL 50	UNCENSORED DEATHS 18	CENSORED DEATHS 0	TERMINAL 32
UNCENSORED DEATHS			
449 489 490	546 554 572 572 574	602 625 642 649	650 653
662 679 680	692		
CENSORED DEATHS			
None			

---

**DOSE = 375 MG/KG**

TOTAL 50	UNCENSORED DEATHS 23	CENSORED DEATHS 0	TERMINAL 27
UNCENSORED DEATHS			
55 237 390	418 422 438 462 503	505 511 517 531	537 541
575 589 603	627 642 694 706 706	719	
CENSORED DEATHS			
None			

---

**DOSE = 750 MG/KG**

TOTAL 50	UNCENSORED DEATHS 18	CENSORED DEATHS 2	TERMINAL 30
UNCENSORED DEATHS			

**TDMS No.** 95011-07  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** RATS/F 344

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
5-(HYDROXYMETHYL)-2-FURFURAL  
**CAS Number:** 67-47-0  
**Pathologist:** TOFT, J. - Unknown, U.

**Date Report Reqsted:** 09/01/2006  
**Time Report Reqsted:** 8:29:53  
**First Dose M/F:** 03/06/02 / 03/07/02  
**Lab:** BAT

**FEMALE RATS**  
FIRST TERMINAL SACRIFICE AT 728 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

190	459	479	550	574	602	609	633	662	694	695	713	713	715
715	716	719	719										
CENSORED DEATHS													
9	634												

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
 5-(HYDROXYMETHYL)-2-FURFURAL  
**CAS Number:** 67-47-0  
**Pathologist:** TOFT, J. - Unknown, U.  
**FEMALE RATS**  
 FIRST TERMINAL SACRIFICE AT 728 DAYS

**Date Report Reqsted:** 09/01/2006  
**Time Report Reqsted:** 8:29:53  
**First Dose M/F:** 03/06/02 / 03/07/02  
**Lab:** BAT

**KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)**

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	728(A)
<b>0 MG/KG</b>	100.0	100.0	98.0	98.0	98.0	94.0	92.0	86.0	72.0	62.0
<b>188 MG/KG</b>	100.0	100.0	100.0	100.0	100.0	98.0	94.0	82.0	70.0	64.0
<b>375 MG/KG</b>	98.0	98.0	96.0	96.0	90.0	86.0	72.0	66.0	62.0	54.0
<b>750 MG/KG</b>	100.0	100.0	98.0	98.0	98.0	93.9	93.9	87.8	81.6	62.8

- (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)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
 5-(HYDROXYMETHYL)-2-FURFURAL  
**CAS Number:** 67-47-0  
**Pathologist:** TOFT, J. - Unknown, U.  
**FEMALE RATS**  
 FIRST TERMINAL SACRIFICE AT 728 DAYS

**Date Report Requested:** 09/01/2006  
**Time Report Requested:** 8:29:53  
**First Dose M/F:** 03/06/02 / 03/07/02  
**Lab:** BAT

<b>SURVIVAL SUMMARY STATISTICS</b>				
<b>DOSE</b>	<b>0 MG/KG</b>	<b>188 MG/KG</b>	<b>375 MG/KG</b>	<b>750 MG/KG</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	62.0%	64.0%	54.0%	62.8%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=1.000N	P=1.000N	P=0.320	P=1.000N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	598.3 (29.2)	598.9 (17.1)	518.6 (32.2)	619.8 (32.1)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	678.7 (14.1)	681.5 (10.7)	631.7 (20.9)	672.8 (19.2)

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

- (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)