

Experiment Number: 00602-05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Mouse/B6C3F1/NCTR

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Test Compound: Urethane + ethanol (combination)
CAS Number: URETHCOMB

Date Report Requested: 10/18/2014
Time Report Requested: 00:02:09
First Dose M/F: NA / NA
Lab: NCTR

C Number:	C00602F
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	NONE

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

Male MOUSE
FIRST TERMINAL SACRIFICE AT 764 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0% ETH/ 0PPM URE													
TOTAL 48			UNCENSORED DEATHS 20				CENSORED DEATHS 0			TERMINAL 28			
UNCENSORED DEATH DAYS													
98	130	144	320	342	376	515	536	541	562	584	599	677	708
712	739	739	756	757	757								
CENSORED DEATH DAYS													
none													
DOSE = 0% ETH/ 10PPMURE													
TOTAL 48			UNCENSORED DEATHS 22				CENSORED DEATHS 0			TERMINAL 26			
UNCENSORED DEATH DAYS													
111	141	211	220	224	306	443	511	520	537	614	640	642	662
665	691	703	706	726	746	752	754						
CENSORED DEATH DAYS													
none													
DOSE = 0% ETH/ 30PPMURE													
TOTAL 48			UNCENSORED DEATHS 22				CENSORED DEATHS 0			TERMINAL 26			
UNCENSORED DEATH DAYS													
312	403	410	432	456	510	542	611	641	643	653	655	668	707
724	724	728	746	746	752	754	762						
CENSORED DEATH DAYS													
none													
DOSE = 0% ETH/ 90PPMURE													
TOTAL 48			UNCENSORED DEATHS 40				CENSORED DEATHS 0			TERMINAL 8			
UNCENSORED DEATH DAYS													
293	334	369	453	453	466	473	483	493	503	521	530	548	548
569	576	580	600	600	611	611	618	646	660	664	680	680	682
701	703	707	710	713	719	726	726	728	729	746	761		
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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 First Dose M/F: NA / NA
 Lab: NCTR

Male MOUSE
FIRST TERMINAL SACRIFICE AT 764 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 2.5%ETH/0PPM URE													
TOTAL 48			UNCENSORED DEATHS 16				CENSORED DEATHS 0			TERMINAL 32			
UNCENSORED DEATH DAYS													
123	373	474	513	527	582	607	614	619	642	655	670	675	696
719	761												
CENSORED DEATH DAYS													
none													
DOSE = 2.5%ETH/10PPMURE													
TOTAL 48			UNCENSORED DEATHS 18				CENSORED DEATHS 0			TERMINAL 30			
UNCENSORED DEATH DAYS													
305	382	466	523	617	620	622	628	638	655	675	681	710	713
718	739	743	760										
CENSORED DEATH DAYS													
none													
DOSE = 2.5%ETH/30PPMURE													
TOTAL 48			UNCENSORED DEATHS 23				CENSORED DEATHS 0			TERMINAL 25			
UNCENSORED DEATH DAYS													
114	123	154	246	362	426	436	514	528	593	635	640	642	655
663	674	684	710	711	711	733	734	743					
CENSORED DEATH DAYS													
none													
DOSE = 2.5%ETH/90PPMURE													
TOTAL 48			UNCENSORED DEATHS 32				CENSORED DEATHS 0			TERMINAL 16			
UNCENSORED DEATH DAYS													
120	395	453	488	524	536	552	569	588	605	614	620	626	640
649	662	668	670	684	687	690	695	698	721	726	728	734	735
744	748	751	755										
CENSORED DEATH DAYS													
none													

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

Male MOUSE
FIRST TERMINAL SACRIFICE AT 764 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 5.0%ETH/0PPM URE													
TOTAL 48			UNCENSORED DEATHS 12				CENSORED DEATHS 0			TERMINAL 36			
UNCENSORED DEATH DAYS													
447	464	542	607	612	664	710	724	747	748	752	753		
CENSORED DEATH DAYS													
none													
DOSE = 5.0%ETH/10PPMURE													
TOTAL 48			UNCENSORED DEATHS 19				CENSORED DEATHS 0			TERMINAL 29			
UNCENSORED DEATH DAYS													
113	296	299	384	421	517	529	542	592	620	662	663	680	701
711	739	747	747	748									
CENSORED DEATH DAYS													
none													
DOSE = 5.0%ETH/30PPMURE													
TOTAL 48			UNCENSORED DEATHS 23				CENSORED DEATHS 0			TERMINAL 25			
UNCENSORED DEATH DAYS													
177	210	368	417	443	498	507	539	570	614	625	645	652	660
671	671	678	710	712	712	733	763	763					
CENSORED DEATH DAYS													
none													
DOSE = 5.0%ETH/90PPMURE													
TOTAL 48			UNCENSORED DEATHS 36				CENSORED DEATHS 0			TERMINAL 12			
UNCENSORED DEATH DAYS													
138	296	355	444	467	478	507	507	553	570	577	580	593	618
620	623	643	670	673	684	690	691	697	702	707	710	710	711
717	747	748	751	753	754	760	762						
CENSORED DEATH DAYS													
none													

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

Male MOUSE
FIRST TERMINAL SACRIFICE AT 764 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	764(A)
0% ETH/ 0PPM URE	100.0	93.7	93.7	89.6	87.5	87.5	81.2	75.0	75.0	58.3
0% ETH/ 10PPMURE	100.0	95.8	89.6	87.5	87.5	85.4	79.2	79.2	68.8	54.2
0% ETH/ 30PPMURE	100.0	100.0	100.0	97.9	93.7	89.6	85.4	85.4	75.0	54.2
0% ETH/ 90PPMURE	100.0	100.0	100.0	95.8	93.7	83.3	75.0	60.4	47.9	16.7
2.5%ETH/0PPM URE	100.0	97.9	97.9	97.9	95.8	93.7	89.6	87.5	77.1	66.7
2.5%ETH/10PPMURE	100.0	100.0	100.0	97.9	95.8	93.7	91.7	91.7	79.2	62.5
2.5%ETH/30PPMURE	100.0	93.7	91.7	89.6	89.6	85.4	81.2	79.2	68.8	52.1
2.5%ETH/90PPMURE	100.0	97.9	97.9	97.9	95.8	93.7	87.5	79.2	66.7	33.3
5.0%ETH/0PPM URE	100.0	100.0	100.0	100.0	100.0	95.8	93.7	93.7	87.5	75.0
5.0%ETH/10PPMURE	100.0	97.9	97.9	93.7	89.6	89.6	83.3	81.2	75.0	60.4
5.0%ETH/30PPMURE	100.0	97.9	95.8	95.8	91.7	89.6	83.3	81.2	70.8	52.1
5.0%ETH/90PPMURE	100.0	97.9	97.9	93.7	93.7	87.5	83.3	72.9	64.6	25.0

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First Dose M/F: NA / NA
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Male MOUSE
FIRST TERMINAL SACRIFICE AT 764 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	58.3%	54.2%	54.2%	16.7%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	529.6 (49.6)	523.9 (46.9)	617.2 (29.4)	597.8 (19.0)
MEAN LIFE SPAN (D) (STANDARD ERROR)	666.3 (26.4)	653.9 (27.5)	696.7 (17.1)	625.5 (18.2)

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Male MOUSE
FIRST TERMINAL SACRIFICE AT 764 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	2.5%ETH/0PPM URE	2.5%ETH/10PPMURE	2.5%ETH/30PPMURE	2.5%ETH/90PPMURE
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	66.7%	62.5%	52.1%	33.3%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	578.1 (39.0)	621.9 (29.8)	540.5 (43.3)	627.3 (23.1)
MEAN LIFE SPAN (D) (STANDARD ERROR)	702.0 (18.0)	710.7 (14.9)	656.9 (26.2)	672.9 (18.0)

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Male MOUSE
FIRST TERMINAL SACRIFICE AT 764 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	5.0%ETH/0PPM URE	5.0%ETH/10PPMURE	5.0%ETH/30PPMURE	5.0%ETH/90PPMURE
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	75.0%	60.4%	52.1%	25.0%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	647.5 (32.6)	563.7 (42.3)	579.9 (34.2)	616.8 (23.9)
MEAN LIFE SPAN (D) (STANDARD ERROR)	734.9 (10.8)	684.7 (21.8)	675.8 (21.0)	653.6 (20.1)

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Female MOUSE
FIRST TERMINAL SACRIFICE AT 765 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0% ETH/ 0PPM URE													
TOTAL 48			UNCENSORED DEATHS 10				CENSORED DEATHS 0				TERMINAL 38		
UNCENSORED DEATH DAYS													
541	616	636	639	642	724	725	747	761	761				
CENSORED DEATH DAYS													
none													
DOSE = 0% ETH/ 10PPMURE													
TOTAL 48			UNCENSORED DEATHS 11				CENSORED DEATHS 0				TERMINAL 37		
UNCENSORED DEATH DAYS													
489	510	594	643	648	672	684	728	739	741	742			
CENSORED DEATH DAYS													
none													
DOSE = 0% ETH/ 30PPMURE													
TOTAL 48			UNCENSORED DEATHS 21				CENSORED DEATHS 0				TERMINAL 27		
UNCENSORED DEATH DAYS													
424	438	521	522	522	549	554	616	635	649	669	675	678	696
701	710	712	719	725	746	763							
CENSORED DEATH DAYS													
none													
DOSE = 0% ETH/ 90PPMURE													
TOTAL 48			UNCENSORED DEATHS 47				CENSORED DEATHS 0				TERMINAL 1		
UNCENSORED DEATH DAYS													
193	391	427	436	466	522	523	548	551	573	576	578	584	590
592	593	605	618	618	620	635	635	642	643	650	662	676	676
678	678	680	683	686	694	696	705	710	714	717	721	723	725
739	744	745	753	756									
CENSORED DEATH DAYS													
none													

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Female MOUSE
FIRST TERMINAL SACRIFICE AT 765 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 2.5%ETH/0PPM URE													
TOTAL 48		UNCENSORED DEATHS 5				CENSORED DEATHS 4				TERMINAL 39			
UNCENSORED DEATH DAYS													
598	677	718	752	764									
CENSORED DEATH DAYS													
608	608	608	608										
DOSE = 2.5%ETH/10PPMURE													
TOTAL 47		UNCENSORED DEATHS 11				CENSORED DEATHS 3				TERMINAL 33			
UNCENSORED DEATH DAYS													
433	529	611	614	618	648	660	698	719	734	736			
CENSORED DEATH DAYS													
748	748	748											
DOSE = 2.5%ETH/30PPMURE													
TOTAL 48		UNCENSORED DEATHS 29				CENSORED DEATHS 0				TERMINAL 19			
UNCENSORED DEATH DAYS													
306	353	468	493	551	584	593	594	600	607	614	636	640	640
641	654	677	681	689	690	696	696	698	703	712	718	733	738
762													
CENSORED DEATH DAYS													
none													
DOSE = 2.5%ETH/90PPMURE													
TOTAL 48		UNCENSORED DEATHS 40				CENSORED DEATHS 0				TERMINAL 8			
UNCENSORED DEATH DAYS													
360	388	499	508	516	542	565	593	599	608	611	614	620	626
628	646	648	649	650	651	652	659	662	670	677	686	689	692
709	711	715	716	718	737	737	738	738	743	753	762		
CENSORED DEATH DAYS													
none													

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INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 5.0%ETH/0PPM URE													
TOTAL 48			UNCENSORED DEATHS 13				CENSORED DEATHS 4			TERMINAL 31			
UNCENSORED DEATH DAYS													
515	571	626	635	671	706	718	718	726	737	745	747	754	
CENSORED DEATH DAYS													
216	216	216	216										
DOSE = 5.0%ETH/10PPMURE													
TOTAL 48			UNCENSORED DEATHS 14				CENSORED DEATHS 2			TERMINAL 32			
UNCENSORED DEATH DAYS													
347	531	553	644	662	664	686	703	721	738	745	754	757	760
CENSORED DEATH DAYS													
229	229												
DOSE = 5.0%ETH/30PPMURE													
TOTAL 48			UNCENSORED DEATHS 21				CENSORED DEATHS 0			TERMINAL 27			
UNCENSORED DEATH DAYS													
285	380	577	581	598	613	638	642	663	670	675	685	687	688
702	716	730	745	745	746	752							
CENSORED DEATH DAYS													
none													
DOSE = 5.0%ETH/90PPMURE													
TOTAL 48			UNCENSORED DEATHS 44				CENSORED DEATHS 0			TERMINAL 4			
UNCENSORED DEATH DAYS													
249	433	459	478	485	496	559	569	573	592	594	594	598	603
614	629	633	633	643	645	654	654	661	661	662	670	673	674
675	675	681	684	700	702	717	719	725	725	726	745	749	751
757	762												
CENSORED DEATH DAYS													
none													

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DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	765(A)
0% ETH/ 0PPM URE	100.0	100.0	100.0	100.0	100.0	100.0	97.9	97.9	89.6	79.2
0% ETH/ 10PPMURE	100.0	100.0	100.0	100.0	100.0	100.0	95.8	93.7	89.6	77.1
0% ETH/ 30PPMURE	100.0	100.0	100.0	100.0	97.9	95.8	89.6	85.4	79.2	56.3
0% ETH/ 90PPMURE	100.0	100.0	97.9	97.9	95.8	89.6	85.4	64.6	45.8	2.1
2.5%ETH/0PPM URE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.9	97.9	88.8
2.5%ETH/10PPMURE	100.0	100.0	100.0	100.0	100.0	97.9	95.7	95.7	85.1	76.6
2.5%ETH/30PPMURE	100.0	100.0	100.0	95.8	95.8	93.7	91.7	81.2	66.7	39.6
2.5%ETH/90PPMURE	100.0	100.0	100.0	97.9	95.8	95.8	87.5	81.2	52.1	16.7
5.0%ETH/0PPM URE	100.0	100.0	100.0	100.0	100.0	100.0	97.7	95.5	90.9	70.5
5.0%ETH/10PPMURE	100.0	100.0	100.0	97.8	97.8	97.8	95.7	93.5	87.0	69.6
5.0%ETH/30PPMURE	100.0	100.0	100.0	97.9	95.8	95.8	95.8	89.6	81.2	56.3
5.0%ETH/90PPMURE	100.0	100.0	97.9	97.9	97.9	89.6	87.5	70.8	47.9	8.3

(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)

Experiment Number: 00602-05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Mouse/B6C3F1/NCTR

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Test Compound: Urethane + ethanol (combination)
CAS Number: URETHCOMB

Date Report Requested: 10/18/2014
Time Report Requested: 00:02:09
First Dose M/F: NA / NA
Lab: NCTR

Female MOUSE
 FIRST TERMINAL SACRIFICE AT 765 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	79.2%	77.1%	56.3%	2.1%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	679.2 (23.6)	653.6 (27.1)	629.7 (22.0)	624.9 (16.0)
MEAN LIFE SPAN (D) (STANDARD ERROR)	747.1 (6.9)	739.5 (9.1)	705.8 (13.6)	627.8 (15.9)

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Lab: NCTR

Female MOUSE
 FIRST TERMINAL SACRIFICE AT 765 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	2.5%ETH/0PPM URE	2.5%ETH/10PPMURE	2.5%ETH/30PPMURE	2.5%ETH/90PPMURE
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	88.8%	76.6%	39.6%	16.7%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	701.8 (30.0)	636.4 (27.8)	626.4 (20.0)	642.1 (14.6)
MEAN LIFE SPAN (D) (STANDARD ERROR)	745.3 (7.2)	733.8 (10.1)	681.3 (15.5)	662.6 (13.8)

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Experiment Number: 00602-05
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Species/Strain: Mouse/B6C3F1/NCTR

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Test Compound: Urethane + ethanol (combination)
CAS Number: URETHCOMB

Date Report Requested: 10/18/2014
Time Report Requested: 00:02:09
First Dose M/F: NA / NA
Lab: NCTR

Female MOUSE
FIRST TERMINAL SACRIFICE AT 765 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	5.0%ETH/0PPM URE	5.0%ETH/10PPMURE	5.0%ETH/30PPMURE	5.0%ETH/90PPMURE
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	70.5%	69.6%	56.3%	8.3%
SIGNIFICANCE (B) (LIFE TABLE)	-----	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	682.2 (20.8)	661.8 (30.9)	643.7 (25.6)	633.7 (15.3)
MEAN LIFE SPAN (D) (STANDARD ERROR)	696.8 (22.5)	712.6 (18.4)	711.9 (14.1)	644.6 (14.9)

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Experiment Number: 00602-05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Mouse/B6C3F1/NCTR

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Test Compound: Urethane + ethanol (combination)
CAS Number: URETHCOMB

Date Report Requested: 10/18/2014
Time Report Requested: 00:02:09
First Dose M/F: NA / NA
Lab: NCTR

**** END OF REPORT ****

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