

Experiment Number: 20314 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/NCTR

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Glycidamide
CAS Number: 5694-00-8

Date Report Requested: 12/17/2014
Time Report Requested: 07:40:57
First Dose M/F: 05/30/05 / 05/30/05
Lab: NCTR

NTP Study Number: C20314
Lock Date: 11/01/2011
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.2_002
PWG Approval Date: NONE

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MALE RATS

FIRST TERMINAL SACRIFICE AT 737 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL WATER

TOTAL 48 UNCENSORED DEATHS 27 CENSORED DEATHS 0 TERMINAL 21

UNCENSORED DEATH DAYS

403	481	487	487	509	516	523	527	565	592	597	614	628	633
634	635	675	688	698	702	708	709	711	724	725	725	733	

CENSORED DEATH DAYS

None

DOSE = 0.0875 GLYCID

TOTAL 48 UNCENSORED DEATHS 30 CENSORED DEATHS 0 TERMINAL 18

UNCENSORED DEATH DAYS

323	466	468	477	502	515	559	572	574	592	603	624	625	632
640	641	647	648	649	658	675	679	680	683	684	695	697	715
717	718												

CENSORED DEATH DAYS

None

DOSE = 0.175 GLYCID

TOTAL 48 UNCENSORED DEATHS 33 CENSORED DEATHS 0 TERMINAL 15

UNCENSORED DEATH DAYS

449	498	505	506	519	535	537	549	572	578	603	612	614	626
631	640	646	653	653	667	670	670	675	681	682	684	686	691
714	723	725	730	730									

CENSORED DEATH DAYS

None

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MALE RATS

FIRST TERMINAL SACRIFICE AT 737 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0.35 GLYCID

TOTAL 47		UNCENSORED DEATHS 40						CENSORED DEATHS 0				TERMINAL 7	
UNCENSORED DEATH DAYS													
418	485	488	551	556	569	574	578	584	585	586	586	588	589
604	604	632	634	635	635	645	655	669	674	677	680	682	684
691	692	696	698	702	703	717	718	719	722	725	732		
CENSORED DEATH DAYS													
None													

DOSE = 0.70 GLYCID

TOTAL 48		UNCENSORED DEATHS 46						CENSORED DEATHS 0				TERMINAL 2	
UNCENSORED DEATH DAYS													
392	411	428	439	446	474	474	474	505	516	519	520	523	534
537	541	541	544	555	555	569	600	603	607	607	610	610	614
624	626	632	660	662	666	667	672	673	677	690	691	695	697
702	716	723	729										
CENSORED DEATH DAYS													
None													

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FIRST TERMINAL SACRIFICE AT 737 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	737(A)
CONTROL WATER	100.0	100.0	100.0	100.0	97.9	95.8	83.3	77.1	66.7	43.8
0.0875 GLYCID	100.0	100.0	100.0	97.9	97.9	91.7	87.5	77.1	58.3	37.5
0.175 GLYCID	100.0	100.0	100.0	100.0	100.0	97.9	85.4	77.1	60.4	31.3
0.35 GLYCID	100.0	100.0	100.0	100.0	97.9	95.7	93.6	66.0	53.2	14.9
0.70 GLYCID	100.0	100.0	100.0	100.0	95.8	83.3	62.5	52.1	31.3	4.2

(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 737 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL WATER	0.0875 GLYCID	0.175 GLYCID	0.35 GLYCID
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	43.8%	37.5%	31.3%	14.9%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	P=0.536	P=0.280	P=0.005
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	615.9 (18.4)	611.9 (17.0)	625.9 (13.5)	634.1 (11.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	668.9 (13.5)	658.8 (13.7)	660.6 (11.9)	649.4 (11.3)

DOSE	0.70 GLYCID
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	4.2%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	585.9 (13.6)
MEAN LIFE SPAN (D) (STANDARD ERROR)	592.2 (13.7)

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Lab: NCTR

FEMALE RATS

FIRST TERMINAL SACRIFICE AT 737 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL WATER

TOTAL 48 UNCENSORED DEATHS 13 CENSORED DEATHS 0 TERMINAL 35
UNCENSORED DEATH DAYS
432 544 550 573 579 613 620 628 672 687 690 715 722
CENSORED DEATH DAYS
None

DOSE = 0.0875 GLYCID

TOTAL 48 UNCENSORED DEATHS 22 CENSORED DEATHS 0 TERMINAL 26
UNCENSORED DEATH DAYS
484 488 495 509 520 571 596 611 611 630 635 653 670 680
683 690 693 702 705 725 730 732
CENSORED DEATH DAYS
None

DOSE = 0.175 GLYCID

TOTAL 48 UNCENSORED DEATHS 21 CENSORED DEATHS 0 TERMINAL 27
UNCENSORED DEATH DAYS
373 481 514 522 549 555 560 564 625 634 648 666 673 683
691 691 697 704 715 726 735
CENSORED DEATH DAYS
None

DOSE = 0.35 GLYCID

TOTAL 48 UNCENSORED DEATHS 31 CENSORED DEATHS 0 TERMINAL 17
UNCENSORED DEATH DAYS
296 365 436 456 481 494 522 526 544 550 556 558 585 626
628 640 651 656 660 676 684 684 691 696 697 697 716 718
718 718 723
CENSORED DEATH DAYS
None

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 737 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0.70 GLYCID

TOTAL 48	UNCENSORED DEATHS 46				CENSORED DEATHS 0				TERMINAL 2				
UNCENSORED DEATH DAYS													
344	375	404	422	435	446	453	466	491	491	505	506	509	513
514	521	521	549	550	551	557	563	571	574	579	585	593	596
609	612	614	620	621	626	626	642	645	662	663	667	677	682
705	705	710	725										
CENSORED DEATH DAYS													
None													

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FIRST TERMINAL SACRIFICE AT 737 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	737(A)
CONTROL WATER	100.0	100.0	100.0	100.0	100.0	97.9	95.8	89.6	83.3	72.9
0.0875 GLYCID	100.0	100.0	100.0	100.0	100.0	97.9	89.6	85.4	75.0	54.2
0.175 GLYCID	100.0	100.0	100.0	100.0	97.9	95.8	91.7	83.3	77.1	56.3
0.35 GLYCID	100.0	100.0	100.0	95.8	95.8	89.6	81.3	72.9	60.4	35.4
0.70 GLYCID	100.0	100.0	100.0	97.9	91.7	83.3	64.6	41.7	18.8	4.2

(A) FIRST TERMINAL SACRIFICE
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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 737 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL WATER	0.0875 GLYCID	0.175 GLYCID	0.35 GLYCID
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	72.9%	54.2%	56.3%	35.4%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	P=0.098	P=0.141	P<0.001
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	617.3 (22.8)	627.9 (17.8)	619.3 (20.9)	601.5 (20.2)
MEAN LIFE SPAN (D) (STANDARD ERROR)	704.6 (9.8)	687.0 (11.3)	685.5 (12.4)	649.5 (16.1)

DOSE	0.70 GLYCID
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	4.2%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	565.1 (13.8)
MEAN LIFE SPAN (D) (STANDARD ERROR)	572.3 (14.1)

*** END OF REPORT ***

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