

Experiment Number: 99930-93
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/17/2014
Time Report Requested: 12:48:01
First Dose M/F: NA / NA
Lab: NCTR

C Number:	MG96005
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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Male RAT
FIRST TERMINAL SACRIFICE AT 750 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = F3 0PPM			UNCENSORED DEATHS 19			CENSORED DEATHS 0			TERMINAL 33				
TOTAL 52													
UNCENSORED DEATH DAYS													
260	402	468	494	497	497	506	550	581	606	609	635	662	665
683	695	729	742	744									
CENSORED DEATH DAYS													
none													
DOSE = F3 5PPM TO CTL			UNCENSORED DEATHS 8			CENSORED DEATHS 0			TERMINAL 42				
TOTAL 50													
UNCENSORED DEATH DAYS													
84	295	522	570	587	593	617	694						
CENSORED DEATH DAYS													
none													
DOSE = F3 100PPM TO CTL			UNCENSORED DEATHS 17			CENSORED DEATHS 0			TERMINAL 33				
TOTAL 50													
UNCENSORED DEATH DAYS													
51	338	527	544	550	555	570	593	645	659	665	666	680	681
702	715	737											
CENSORED DEATH DAYS													
none													
DOSE = F3 500PPM TO CTL			UNCENSORED DEATHS 14			CENSORED DEATHS 0			TERMINAL 36				
TOTAL 50													
UNCENSORED DEATH DAYS													
50	79	508	529	532	554	601	624	626	629	638	641	679	713
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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KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	750(A)
F3 0PPM	100.0	100.0	98.1	98.1	96.2	94.2	86.5	82.7	73.1	63.5
F3 5PPM TO CTL	98.0	98.0	98.0	96.0	96.0	96.0	94.0	88.0	86.0	84.0
F3 100PPM TO CTL	98.0	98.0	98.0	96.0	96.0	96.0	92.0	84.0	78.0	66.0
F3 500PPM TO CTL	96.0	96.0	96.0	96.0	96.0	96.0	90.0	86.0	76.0	72.0

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SURVIVAL SUMMARY STATISTICS

DOSE	F3 0PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TO CTL
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	63.5%	84.0%	66.0%	72.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=1.000	P=0.039N	P=0.882N	P=0.488N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	580.3 (29.2)	495.3 (71.7)	581.1 (40.6)	528.8 (54.8)
MEAN LIFE SPAN (D) (STANDARD ERROR)	688.0 (15.5)	709.2 (17.2)	692.6 (17.7)	688.1 (20.6)

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Female RAT
 FIRST TERMINAL SACRIFICE AT 750 DAYS
 INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = F3 0 PPM													
TOTAL 53			UNCENSORED DEATHS 20			CENSORED DEATHS 0			TERMINAL 33				
UNCENSORED DEATH DAYS													
486	489	500	584	584	590	612	613	630	658	661	677	695	701
706	707	708	725	734	734								
CENSORED DEATH DAYS													
none													
DOSE = F3 5PPM TO CTL													
TOTAL 50			UNCENSORED DEATHS 20			CENSORED DEATHS 0			TERMINAL 30				
UNCENSORED DEATH DAYS													
46	496	517	525	527	528	532	535	575	592	664	677	693	698
702	711	713	734	738	742								
CENSORED DEATH DAYS													
none													
DOSE = F3 100PPM TO CTL													
TOTAL 50			UNCENSORED DEATHS 21			CENSORED DEATHS 0			TERMINAL 29				
UNCENSORED DEATH DAYS													
375	559	588	605	605	616	618	635	641	648	665	674	678	683
686	688	712	720	728	736	744							
CENSORED DEATH DAYS													
none													
DOSE = F3 500PPM TO CTL													
TOTAL 50			UNCENSORED DEATHS 25			CENSORED DEATHS 0			TERMINAL 25				
UNCENSORED DEATH DAYS													
324	494	495	525	527	547	559	589	591	631	640	650	665	667
668	669	676	686	689	697	706	707	732	736	749			
CENSORED DEATH DAYS													
none													

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DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	750(A)
F3 0 PPM	100.0	100.0	100.0	100.0	100.0	100.0	94.3	88.7	79.2	62.3
F3 5PPM TO CTL	98.0	98.0	98.0	98.0	98.0	98.0	84.0	80.0	78.0	60.0
F3 100PPM TO CTL	100.0	100.0	100.0	100.0	98.0	98.0	98.0	90.0	78.0	58.0
F3 500PPM TO CTL	100.0	100.0	100.0	98.0	98.0	98.0	90.0	82.0	74.0	50.0

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SURVIVAL SUMMARY STATISTICS

DOSE	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TO CTL
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	62.3%	60.0%	58.0%	50.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.205	P=0.896	P=0.819	P=0.249
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	639.7 (18.0)	597.3 (35.2)	647.8 (17.6)	624.8 (19.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	708.4 (10.0)	688.9 (17.5)	707.1 (10.3)	687.4 (13.2)

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