

Experiment Number: 99920-93
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)
CAS Number: 57-63-6

Date Report Requested: 10/23/2014
Time Report Requested: 11:51:40
First Dose M/F: NA / NA
Lab: NCTR

C Number:	MG96006
Lock Date:	12/02/2008
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 745 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = F3 OPPB			UNCENSORED DEATHS 20			CENSORED DEATHS 0			TERMINAL 30				
TOTAL 50													
UNCENSORED DEATH DAYS													
154	422	429	521	527	562	585	590	599	601	630	646	649	660
673	700	702	703	741	743								
CENSORED DEATH DAYS													
none													
DOSE = F3/2PPB TO CTL			UNCENSORED DEATHS 22			CENSORED DEATHS 0			TERMINAL 27				
TOTAL 49													
UNCENSORED DEATH DAYS													
331	347	434	527	586	596	618	628	630	638	646	653	660	666
666	673	674	680	720	724	730	734						
CENSORED DEATH DAYS													
none													
DOSE = F3/10PPB TO CTL			UNCENSORED DEATHS 19			CENSORED DEATHS 0			TERMINAL 31				
TOTAL 50													
UNCENSORED DEATH DAYS													
198	302	389	424	539	565	568	582	656	674	674	686	699	709
720	721	723	724	737									
CENSORED DEATH DAYS													
none													
DOSE = F3/50PPB TO CTL			UNCENSORED DEATHS 15			CENSORED DEATHS 0			TERMINAL 35				
TOTAL 50													
UNCENSORED DEATH DAYS													
91	139	504	553	569	608	625	655	655	674	703	709	709	716
738													
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	745(A)
F3 0PPB	100.0	98.0	98.0	98.0	96.0	94.0	90.0	80.0	72.0	60.0
F3/2PPB TO CTL	100.0	100.0	100.0	95.9	95.9	93.9	91.8	87.8	73.5	55.1
F3/10PPBTO CTL	100.0	100.0	98.0	96.0	92.0	92.0	90.0	84.0	82.0	62.0
F3/50PPBTO CTL	100.0	96.0	96.0	96.0	96.0	96.0	94.0	90.0	82.0	70.0

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SURVIVAL SUMMARY STATISTICS

DOSE	F3 0PPB	F3/2PPB TO CTL	F3/10PPB TO CTL	F3/50PPB TO CTL
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	60.0%	55.1%	62.0%	70.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.194N	P=0.824	P=0.898N	P=0.349N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	591.9 (30.7)	616.4 (24.0)	594.2 (36.4)	576.5 (51.4)
MEAN LIFE SPAN (D) (STANDARD ERROR)	683.7 (16.1)	687.3 (14.1)	687.7 (17.2)	694.5 (18.7)

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FIRST TERMINAL SACRIFICE AT 745 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = F3 OPPB			UNCENSORED DEATHS 25					CENSORED DEATHS 0			TERMINAL 27		
TOTAL 52													
UNCENSORED DEATH DAYS													
47	474	504	518	548	571	575	579	602	603	641	644	651	651
656	656	671	680	680	692	706	708	721	722	726			
CENSORED DEATH DAYS													
none													
DOSE = F3/2PPB TO CTL			UNCENSORED DEATHS 21					CENSORED DEATHS 0			TERMINAL 29		
TOTAL 50													
UNCENSORED DEATH DAYS													
418	495	522	541	548	557	597	599	609	621	624	673	680	683
696	700	708	718	722	726	736							
CENSORED DEATH DAYS													
none													
DOSE = F3/10PPB TO CTL			UNCENSORED DEATHS 28					CENSORED DEATHS 0			TERMINAL 22		
TOTAL 50													
UNCENSORED DEATH DAYS													
139	182	490	532	540	556	603	608	620	620	636	655	666	670
680	682	687	687	692	698	706	713	716	717	721	728	734	739
CENSORED DEATH DAYS													
none													
DOSE = F3/50PPB TO CTL			UNCENSORED DEATHS 24					CENSORED DEATHS 0			TERMINAL 25		
TOTAL 50													
UNCENSORED DEATH DAYS													
287	321	400	427	430	493	548	561	578	596	597	603	616	633
669	677	679	680	682	694	707	715	721	723				
CENSORED DEATH DAYS													
none													

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DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	745(A)
F3 OPPB	98.1	98.1	98.1	98.1	98.1	96.2	92.3	80.8	69.2	51.9
F3/2PPB TO CTL	100.0	100.0	100.0	100.0	98.0	98.0	92.0	84.0	78.0	58.0
F3/10PPBTO CTL	100.0	98.0	96.0	96.0	96.0	96.0	90.0	86.0	76.0	44.0
F3/50PPBTO CTL	100.0	100.0	100.0	96.0	94.0	90.0	88.0	76.0	72.0	52.0

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DOSE	F3 0PPB	F3/2PPB TO CTL	F3/10PPB TO CTL	F3/50PPB TO CTL
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	51.9%	58.0%	44.0%	52.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.714	P=0.605N	P=0.687	P=0.944
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	609.0 (27.4)	627.3 (19.3)	622.0 (27.6)	584.9 (26.2)
MEAN LIFE SPAN (D) (STANDARD ERROR)	679.6 (16.1)	695.6 (11.5)	676.1 (17.6)	666.6 (17.2)

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