

**Experiment Number:** 99930-92  
**Test Type:** MULTIGEN CHRONIC  
**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:** 10/22/2014  
**Time Report Requested:** 14:14:42  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

<b>C Number:</b>	MG96005
<b>Lock Date:</b>	Not Entered.
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

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Male RAT  
**FIRST TERMINAL SACRIFICE AT 735 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

<b>DOSE = F1 0PPM</b>													
TOTAL 54			UNCENSORED DEATHS 18			CENSORED DEATHS 0			TERMINAL 36				
<b>UNCENSORED DEATH DAYS</b>													
57	227	275	364	433	436	475	485	569	572	578	598	669	682
697	712	727	730										
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = F3 0 PPM</b>													
TOTAL 52			UNCENSORED DEATHS 17			CENSORED DEATHS 0			TERMINAL 33				
<b>UNCENSORED DEATH DAYS</b>													
260	402	468	494	497	497	506	550	581	606	609	635	662	665
683	695	729											
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = F1 5PPM</b>													
TOTAL 50			UNCENSORED DEATHS 9			CENSORED DEATHS 0			TERMINAL 41				
<b>UNCENSORED DEATH DAYS</b>													
296	303	429	453	525	602	617	634	688					
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = F1 5PPM/CTL</b>													
TOTAL 50			UNCENSORED DEATHS 14			CENSORED DEATHS 0			TERMINAL 36				
<b>UNCENSORED DEATH DAYS</b>													
406	486	565	584	627	655	665	669	689	713	713	724	731	734
<b>CENSORED DEATH DAYS</b>													
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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 Lab: NCTR

Male RAT  
 FIRST TERMINAL SACRIFICE AT 735 DAYS  
 INDIVIDUAL SURVIVAL TIMES (DAYS)

<b>DOSE = F3 5PPM TO CTL</b>													
TOTAL 50			UNCENSORED DEATHS 8				CENSORED DEATHS 0			TERMINAL 42			
<b>UNCENSORED DEATH DAYS</b>													
84	295	522	570	587	593	617	694						
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = F1 100PPM</b>													
TOTAL 50			UNCENSORED DEATHS 7				CENSORED DEATHS 0			TERMINAL 43			
<b>UNCENSORED DEATH DAYS</b>													
213	474	589	593	617	619	670							
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = F1 100PPM/CTL</b>													
TOTAL 50			UNCENSORED DEATHS 16				CENSORED DEATHS 0			TERMINAL 34			
<b>UNCENSORED DEATH DAYS</b>													
267	350	362	456	603	605	610	627	631	644	648	676	678	702
703	722												
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = F3 100PPM TO CTL</b>													
TOTAL 50			UNCENSORED DEATHS 16				CENSORED DEATHS 0			TERMINAL 33			
<b>UNCENSORED DEATH DAYS</b>													
51	338	527	544	550	555	570	593	645	659	665	666	680	681
702	715												
<b>CENSORED DEATH DAYS</b>													
none													

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(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

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

**Male RAT**  
**FIRST TERMINAL SACRIFICE AT 735 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

<b>DOSE = F1 500PPM</b>													
TOTAL 50			UNCENSORED DEATHS 19				CENSORED DEATHS 0				TERMINAL 31		
<b>UNCENSORED DEATH DAYS</b>													
206	359	528	564	569	662	665	669	675	685	689	705	710	711
712	729	730	731	734									
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = F1 500PPM/CTL</b>													
TOTAL 50			UNCENSORED DEATHS 12				CENSORED DEATHS 0				TERMINAL 38		
<b>UNCENSORED DEATH DAYS</b>													
449	534	568	588	674	675	698	699	705	711	721	727		
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = F3 500PPM TO CTL</b>													
TOTAL 50			UNCENSORED DEATHS 14				CENSORED DEATHS 0				TERMINAL 36		
<b>UNCENSORED DEATH DAYS</b>													
50	79	508	529	532	554	601	624	626	629	638	641	679	713
<b>CENSORED DEATH DAYS</b>													
none													

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**Lab:** NCTR

Male RAT  
 FIRST TERMINAL SACRIFICE AT 735 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	735(A)
F1 0PPM	98.1	98.1	96.3	92.6	92.6	85.2	85.2	77.8	77.8	66.7
F3 0 PPM	100.0	100.0	98.1	98.1	96.2	94.2	86.5	82.7	73.1	67.3
F1 5PPM	100.0	100.0	100.0	96.0	96.0	92.0	90.0	88.0	84.0	82.0
F1 5PPM/CTL	100.0	100.0	100.0	100.0	98.0	98.0	96.0	92.0	86.0	72.0
F3 5PPM TO CTL	98.0	98.0	98.0	96.0	96.0	96.0	94.0	88.0	86.0	84.0
F1 100PPM	100.0	100.0	98.0	98.0	98.0	96.0	96.0	92.0	88.0	86.0
F1 100PPM/CTL	100.0	100.0	98.0	94.0	94.0	92.0	92.0	88.0	78.0	68.0
F3 100PPM TO CTL	98.0	98.0	98.0	96.0	96.0	96.0	92.0	84.0	78.0	68.0
F1 500PPM	100.0	100.0	98.0	96.0	96.0	96.0	94.0	90.0	86.0	62.0
F1 500PPM/CTL	100.0	100.0	100.0	100.0	100.0	98.0	96.0	92.0	92.0	76.0
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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Male RAT  
 FIRST TERMINAL SACRIFICE AT 735 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	F1 0PPM	F3 0 PPM	F1 5PPM	F1 5PPM/CTL
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	66.7%	67.3%	82.0%	72.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.563	-----	P=0.124N	P=0.540N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	515.9 (45.0)	561.1 (29.2)	505.2 (47.9)	640.1 (26.3)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	662.0 (20.4)	675.9 (15.3)	693.6 (15.1)	708.4 (9.4)

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Male RAT  
FIRST TERMINAL SACRIFICE AT 735 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	F3 5PPM TO CTL	F1 100PPM	F1 100PPM/CTL	F3 100PPM TO CTL
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	84.0%	86.0%	68.0%	68.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.071N	P=0.036N	P=0.946N	P=1.000N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	495.3 (71.7)	539.3 (58.9)	580.3 (35.3)	571.3 (41.9)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	696.6 (16.6)	707.6 (12.4)	685.5 (15.1)	681.6 (17.4)

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Male RAT  
FIRST TERMINAL SACRIFICE AT 735 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	F1 500PPM	F1 500PPM/CTL	F3 500PPM TO CTL
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	62.0%	76.0%	72.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.944	P=0.303N	P=0.667N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	633.3 (32.0)	645.8 (25.8)	528.8 (54.8)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	696.4 (13.9)	713.6 (8.1)	677.3 (20.0)

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 Lab: NCTR

**Female RAT**  
**FIRST TERMINAL SACRIFICE AT 733 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

<b>DOSE = F1 0 PPM</b>													
TOTAL 54			UNCENSORED DEATHS 28				CENSORED DEATHS 0				TERMINAL 26		
<b>UNCENSORED DEATH DAYS</b>													
224	331	367	425	436	514	514	583	607	622	625	626	626	626
628	646	648	654	656	669	698	698	698	710	715	717	723	731
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = F3 0 PPM</b>													
TOTAL 53			UNCENSORED DEATHS 18				CENSORED DEATHS 0				TERMINAL 33		
<b>UNCENSORED DEATH DAYS</b>													
486	489	500	584	584	590	612	613	630	658	661	677	695	701
706	707	708	725										
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = F1 5PPM</b>													
TOTAL 50			UNCENSORED DEATHS 22				CENSORED DEATHS 0				TERMINAL 28		
<b>UNCENSORED DEATH DAYS</b>													
111	528	551	560	567	578	597	605	620	625	628	631	640	656
670	681	686	708	710	710	716	730						
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = F1 5PPM/CTL</b>													
TOTAL 50			UNCENSORED DEATHS 18				CENSORED DEATHS 0				TERMINAL 32		
<b>UNCENSORED DEATH DAYS</b>													
325	439	451	543	581	620	625	627	634	658	667	669	673	673
688	692	709	724										
<b>CENSORED DEATH DAYS</b>													
none													

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Female RAT  
 FIRST TERMINAL SACRIFICE AT 733 DAYS  
 INDIVIDUAL SURVIVAL TIMES (DAYS)

<b>DOSE = F3 5PPM TO CTL</b>													
TOTAL 50			UNCENSORED DEATHS 17				CENSORED DEATHS 0			TERMINAL 30			
<b>UNCENSORED DEATH DAYS</b>													
46	496	517	525	527	528	532	535	575	592	664	677	693	698
702	711	713											
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = F1 100PPM</b>													
TOTAL 50			UNCENSORED DEATHS 25				CENSORED DEATHS 0			TERMINAL 25			
<b>UNCENSORED DEATH DAYS</b>													
268	401	465	486	520	534	545	565	603	604	626	635	638	638
653	654	657	657	658	668	691	711	721	731	731			
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = F1 100PPM/CTL</b>													
TOTAL 50			UNCENSORED DEATHS 17				CENSORED DEATHS 0			TERMINAL 33			
<b>UNCENSORED DEATH DAYS</b>													
410	423	538	577	619	632	654	658	670	670	683	683	698	703
709	720	732											
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = F3 100PPM TO CTL</b>													
TOTAL 50			UNCENSORED DEATHS 19				CENSORED DEATHS 0			TERMINAL 29			
<b>UNCENSORED DEATH DAYS</b>													
375	559	588	605	605	616	618	635	641	648	665	674	678	683
686	688	712	720	728									
<b>CENSORED DEATH DAYS</b>													
none													

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**Female RAT**  
**FIRST TERMINAL SACRIFICE AT 733 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

<b>DOSE = F1 500PPM</b>													
TOTAL 49			UNCENSORED DEATHS 26				CENSORED DEATHS 0			TERMINAL 22			
<b>UNCENSORED DEATH DAYS</b>													
330	345	359	408	512	550	565	568	598	605	618	618	626	630
632	644	660	660	668	675	678	679	688	688	694	726		
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = F1 500PPM/CTL</b>													
TOTAL 50			UNCENSORED DEATHS 27				CENSORED DEATHS 0			TERMINAL 23			
<b>UNCENSORED DEATH DAYS</b>													
376	418	507	517	520	540	587	595	600	602	614	643	648	648
650	657	661	669	671	673	676	688	695	696	704	705	723	
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = F3 500PPM TOCTL</b>													
TOTAL 50			UNCENSORED DEATHS 23				CENSORED DEATHS 0			TERMINAL 25			
<b>UNCENSORED DEATH DAYS</b>													
324	494	495	525	527	547	559	589	591	631	640	650	665	667
668	669	676	686	689	697	706	707	732					
<b>CENSORED DEATH DAYS</b>													
none													

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Female RAT  
 FIRST TERMINAL SACRIFICE AT 733 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	733(A)
F1 0 PPM	100.0	100.0	98.1	96.3	92.6	90.7	87.0	85.2	64.8	48.1
F3 0 PPM	100.0	100.0	100.0	100.0	100.0	100.0	94.3	88.7	79.2	66.0
F1 5PPM	100.0	98.0	98.0	98.0	98.0	98.0	96.0	84.0	72.0	56.0
F1 5PPM/CTL	100.0	100.0	100.0	98.0	98.0	94.0	92.0	90.0	80.0	64.0
F3 5PPM TO CTL	98.0	98.0	98.0	98.0	98.0	98.0	84.0	80.0	78.0	66.0
F1 100PPM	100.0	100.0	98.0	98.0	96.0	94.0	86.0	80.0	62.0	50.0
F1 100PPM/CTL	100.0	100.0	100.0	100.0	96.0	96.0	94.0	92.0	84.0	66.0
F3 100PPM TO CTL	100.0	100.0	100.0	100.0	98.0	98.0	98.0	90.0	78.0	62.0
F1 500PPM	100.0	100.0	100.0	93.9	91.8	91.8	89.8	79.6	63.3	46.9
F1 500PPM/CTL	100.0	100.0	100.0	100.0	96.0	96.0	88.0	80.0	66.0	46.0
F3 500PPM TOCTL	100.0	100.0	100.0	98.0	98.0	98.0	90.0	82.0	74.0	54.0

(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:** 99930-92  
**Test Type:** MULTIGEN CHRONIC  
**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:** 10/22/2014  
**Time Report Requested:** 14:14:42  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

Female RAT  
 FIRST TERMINAL SACRIFICE AT 733 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	F1 0 PPM	F3 0 PPM	F1 5PPM	F1 5PPM/CTL
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	48.1%	66.0%	56.0%	64.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.019	-----	P=0.516N	P=0.144N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	597.0 (24.7)	629.2 (18.4)	614.0 (27.1)	611.0 (25.2)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	662.5 (15.7)	696.4 (9.5)	680.6 (14.5)	689.1 (12.2)

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**Female RAT**  
**FIRST TERMINAL SACRIFICE AT 733 DAYS**

**SURVIVAL SUMMARY STATISTICS**

<b>DOSE</b>	<b>F3 5PPM TO CTL</b>	<b>F1 100PPM</b>	<b>F1 100PPM/CTL</b>	<b>F3 100PPM TO CTL</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	66.0%	50.0%	66.0%	62.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.197N	P=0.970N	P=0.070N	P=0.250N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	572.4 (38.4)	602.4 (22.0)	634.1 (23.3)	638.1 (18.1)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	674.9 (17.7)	667.7 (14.3)	699.4 (10.2)	695.4 (9.8)

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Female RAT  
FIRST TERMINAL SACRIFICE AT 733 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	F1 500PPM	F1 500PPM/CTL	F3 500PPM TOCTL
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	46.9%	46.0%	54.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.805	P=0.936	P=0.798N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	593.2 (22.2)	617.9 (16.9)	614.5 (20.0)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	657.3 (15.6)	670.8 (12.2)	676.2 (12.8)

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

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