

**Experiment Number:** 92004-01  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** NTP 91/92 diet study  
**CAS Number:** DIET9192

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 18:15:13  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

**C Number:** C92004  
**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



**Experiment Number:** 92004-01  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** NTP 91/92 diet study  
**CAS Number:** DIET9192

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 18:15:13  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

Male RAT  
FIRST TERMINAL SACRIFICE AT 561 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	57	114	171	228	285	342	399	456	513	561(A)
07M	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.7	95.0	93.3
91M	100.0	100.0	100.0	100.0	100.0	98.3	96.7	96.7	93.3	90.0
92M	100.0	100.0	100.0	100.0	100.0	100.0	98.3	98.3	91.7	86.7

(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:** 92004-01  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** NTP 91/92 diet study  
**CAS Number:** DIET9192

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 18:15:13  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

Male RAT  
FIRST TERMINAL SACRIFICE AT 561 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	07M	91M	92M
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	93.3%	90.0%	86.7%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=1.000N	P=0.752N	P=0.774
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	474.3 (25.8)	464.8 (37.9)	496.8 (19.2)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	548.1 (6.9)	551.4 (5.1)	547.5 (5.8)

(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: 92004-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: NTP 91/92 diet study

CAS Number: DIET9192

Date Report Requested: 10/20/2014

Time Report Requested: 18:15:13

First Dose M/F: NA / NA

Lab: NIEHS

Female RAT  
FIRST TERMINAL SACRIFICE AT 726 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

---

<b>DOSE = 07F</b>													
TOTAL 60			UNCENSORED DEATHS 29					CENSORED DEATHS 0			TERMINAL 31		
<b>UNCENSORED DEATH DAYS</b>													
359	373	415	514	531	534	540	541	562	562	579	589	589	590
593	596	616	617	639	656	660	665	670	701	701	701	701	701
705													
<b>CENSORED DEATH DAYS</b>													
none													
<hr/>													
<b>DOSE = 91F</b>													
TOTAL 60			UNCENSORED DEATHS 23					CENSORED DEATHS 0			TERMINAL 37		
<b>UNCENSORED DEATH DAYS</b>													
401	435	506	534	547	568	572	596	600	617	624	625	638	639
651	673	701	708	709	716	721	721	722					
<b>CENSORED DEATH DAYS</b>													
none													
<hr/>													
<b>DOSE = 92F</b>													
TOTAL 60			UNCENSORED DEATHS 22					CENSORED DEATHS 0			TERMINAL 38		
<b>UNCENSORED DEATH DAYS</b>													
384	505	525	531	540	547	572	602	602	617	621	624	660	660
660	673	673	701	701	701	701	708						
<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)

Experiment Number: 92004-01  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA  
Test Compound: NTP 91/92 diet study  
CAS Number: DIET9192

Date Report Requested: 10/20/2014  
Time Report Requested: 18:15:13  
First Dose M/F: NA / NA  
Lab: NIEHS

Female RAT  
FIRST TERMINAL SACRIFICE AT 726 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	726(A)
07F	100.0	100.0	100.0	98.3	95.0	95.0	86.7	73.3	63.3	51.7
91F	100.0	100.0	100.0	100.0	98.3	96.7	93.3	85.0	75.0	61.7
92F	100.0	100.0	100.0	100.0	98.3	98.3	91.7	85.0	75.0	63.3

(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:** 92004-01  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** NTP 91/92 diet study  
**CAS Number:** DIET9192

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 18:15:13  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

**Female RAT**  
**FIRST TERMINAL SACRIFICE AT 726 DAYS**

**SURVIVAL SUMMARY STATISTICS**

<b>DOSE</b>	<b>07F</b>	<b>91F</b>	<b>92F</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	51.7%	61.7%	63.3%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.139N	P=0.247N	P=0.205N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	593.1 (17.5)	618.4 (18.9)	614.0 (17.7)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	661.8 (12.1)	684.8 (9.9)	684.9 (9.5)

(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:** 92004-01

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

**Test Compound:** NTP 91/92 diet study

**CAS Number:** DIET9192

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 18:15:13

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

**Lab:** NIEHS

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

(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)