

Experiment Number: 99920-92
Test Type: MULTIGEN CHRONIC
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: 12:41:09
First Dose M/F: NA / NA
Lab: NCTR

| | |
|-----------------------------|--------------|
| C Number: | MG96006 |
| 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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P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
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First Dose M/F: NA / NA
Lab: NCTR

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

| | | | | | | | | | | | | | |
|------------------------------|-----|-----|----------------------|-----|-----|-----|-------------------|-----|-----|-----|-------------|-----|-----|
| DOSE = F1 0PPB | | | | | | | | | | | | | |
| TOTAL 51 | | | UNCENSORED DEATHS 16 | | | | CENSORED DEATHS 0 | | | | TERMINAL 34 | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 383 | 413 | 443 | 478 | 526 | 556 | 592 | 619 | 631 | 647 | 688 | 702 | 704 | 730 |
| 741 | 744 | | | | | | | | | | | | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| none | | | | | | | | | | | | | |
| DOSE = F3 0PPB | | | | | | | | | | | | | |
| TOTAL 50 | | | UNCENSORED DEATHS 20 | | | | CENSORED DEATHS 0 | | | | TERMINAL 30 | | |
| 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 = F1 2PPB | | | | | | | | | | | | | |
| TOTAL 50 | | | UNCENSORED DEATHS 19 | | | | CENSORED DEATHS 0 | | | | TERMINAL 31 | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 146 | 198 | 386 | 492 | 554 | 596 | 597 | 598 | 600 | 617 | 638 | 639 | 650 | 688 |
| 696 | 704 | 716 | 737 | 743 | | | | | | | | | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| none | | | | | | | | | | | | | |
| DOSE = F1/2PPB TO CTL | | | | | | | | | | | | | |
| TOTAL 50 | | | UNCENSORED DEATHS 18 | | | | CENSORED DEATHS 0 | | | | TERMINAL 31 | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 485 | 510 | 534 | 549 | 569 | 603 | 610 | 619 | 623 | 642 | 646 | 656 | 681 | 695 |
| 719 | 725 | 736 | 737 | | | | | | | | | | |
| 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)

Experiment Number: 99920-92
Test Type: MULTIGEN CHRONIC
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: 12:41:09
First Dose M/F: NA / NA
Lab: NCTR

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

| | | | | | | | | | | | | | |
|--------------------------------|-----|-----|----------------------|-----|-----|-----|-------------------|-----|-----|-------------|-----|-----|-----|
| DOSE = F3/2PPB TO CTL | | | | | | | | | | | | | |
| TOTAL 49 | | | UNCENSORED DEATHS 22 | | | | CENSORED DEATHS 0 | | | TERMINAL 27 | | | |
| 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 = F1 10PPB | | | | | | | | | | | | | |
| TOTAL 50 | | | UNCENSORED DEATHS 20 | | | | CENSORED DEATHS 0 | | | TERMINAL 30 | | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 467 | 494 | 552 | 562 | 596 | 602 | 602 | 615 | 624 | 632 | 633 | 667 | 669 | 688 |
| 696 | 709 | 737 | 737 | 744 | 744 | | | | | | | | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| none | | | | | | | | | | | | | |
| DOSE = F1/10PPB TO CTL | | | | | | | | | | | | | |
| TOTAL 50 | | | UNCENSORED DEATHS 15 | | | | CENSORED DEATHS 0 | | | TERMINAL 33 | | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 219 | 241 | 386 | 454 | 511 | 512 | 576 | 659 | 669 | 677 | 725 | 729 | 730 | 736 |
| 743 | | | | | | | | | | | | | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| none | | | | | | | | | | | | | |
| DOSE = F3/10 PPB TO CTL | | | | | | | | | | | | | |
| TOTAL 50 | | | UNCENSORED DEATHS 19 | | | | CENSORED DEATHS 0 | | | TERMINAL 31 | | | |
| 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 | | | | | | | | | | | | | |

(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: 99920-92
Test Type: MULTIGEN CHRONIC
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: 12:41:09
First Dose M/F: NA / NA
Lab: NCTR

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

| DOSE = F1 50PPB | | | | | | | | | | | | | |
|------------------------------|-----|-----|----------------------|-----|-----|-----|-------------------|-----|-----|-----|-------------|-----|-----|
| TOTAL 50 | | | UNCENSORED DEATHS 15 | | | | CENSORED DEATHS 0 | | | | TERMINAL 34 | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 233 | 258 | 417 | 500 | 585 | 636 | 647 | 653 | 661 | 682 | 685 | 689 | 702 | 703 |
| 737 | | | | | | | | | | | | | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| none | | | | | | | | | | | | | |
| DOSE = F1/50PPB TO CTL | | | | | | | | | | | | | |
| TOTAL 50 | | | UNCENSORED DEATHS 14 | | | | CENSORED DEATHS 0 | | | | TERMINAL 33 | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 469 | 556 | 573 | 594 | 601 | 601 | 619 | 646 | 646 | 654 | 675 | 715 | 738 | 738 |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| none | | | | | | | | | | | | | |
| DOSE = F3/50 PPB TO CTL | | | | | | | | | | | | | |
| TOTAL 50 | | | UNCENSORED DEATHS 15 | | | | CENSORED DEATHS 0 | | | | TERMINAL 35 | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 91 | 139 | 504 | 553 | 569 | 608 | 625 | 655 | 655 | 674 | 703 | 709 | 709 | 716 |
| 738 | | | | | | | | | | | | | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| none | | | | | | | | | | | | | |

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

Experiment Number: 99920-92
Test Type: MULTIGEN CHRONIC
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: 12:41:09
First Dose M/F: NA / NA
Lab: NCTR

Male RAT
 FIRST TERMINAL SACRIFICE AT 745 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

| DOSE | TIME (DAYS) | | | | | | | | | |
|------------------|-------------|-------|-------|-------|-------|------|------|------|------|--------|
| | 90 | 180 | 270 | 365 | 425 | 485 | 545 | 605 | 665 | 745(A) |
| F1 0PPB | 100.0 | 100.0 | 100.0 | 100.0 | 96.1 | 92.2 | 90.2 | 86.3 | 80.4 | 68.6 |
| F3 0PPB | 100.0 | 98.0 | 98.0 | 98.0 | 96.0 | 94.0 | 90.0 | 80.0 | 72.0 | 60.0 |
| F1 2PPB | 100.0 | 98.0 | 96.0 | 96.0 | 94.0 | 94.0 | 92.0 | 82.0 | 74.0 | 62.0 |
| F1/2PPB TO CTL | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.0 | 94.0 | 88.0 | 76.0 | 64.0 |
| F3/2PPB TO CTL | 100.0 | 100.0 | 100.0 | 95.9 | 95.9 | 93.9 | 91.8 | 87.8 | 73.5 | 55.1 |
| F1 10PPB | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.0 | 96.0 | 86.0 | 78.0 | 60.0 |
| F1/10PPB TO CTL | 100.0 | 100.0 | 96.0 | 96.0 | 94.0 | 92.0 | 88.0 | 86.0 | 84.0 | 70.0 |
| F3/10 PPB TO CTL | 100.0 | 100.0 | 98.0 | 96.0 | 92.0 | 92.0 | 90.0 | 84.0 | 82.0 | 62.0 |
| F1 50PPB | 100.0 | 100.0 | 96.0 | 96.0 | 94.0 | 94.0 | 92.0 | 90.0 | 82.0 | 70.0 |
| F1/50PPB TO CTL | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.0 | 98.0 | 88.0 | 80.0 | 72.0 |
| F3/50 PPB TO 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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(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

Experiment Number: 99920-92
Test Type: MULTIGEN CHRONIC
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: 12:41:09
First Dose M/F: NA / NA
Lab: NCTR

Male RAT
FIRST TERMINAL SACRIFICE AT 745 DAYS

SURVIVAL SUMMARY STATISTICS

| DOSE | F1 0PPB | F3 0PPB | F1 2PPB | F1/2PPB TO CTL |
|---|-----------------|-----------------|-----------------|-----------------|
| SURVIVAL AT END OF STUDY (KAPLAN-MEIER) | 68.6% | 60.0% | 62.0% | 64.0% |
| SIGNIFICANCE (B) (LIFE TABLE) | P=0.120N | ----- | P=0.640 | P=0.782 |
| MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR) | 599.8 (30.2) | 591.9 (30.7) | 578.7 (38.4) | 629.9 (18.4) |
| MEAN LIFE SPAN (D) (STANDARD ERROR) | 698.5 (13.5) | 683.7 (16.1) | 681.8 (18.4) | 702.7 (10.4) |

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

Male RAT
FIRST TERMINAL SACRIFICE AT 745 DAYS

SURVIVAL SUMMARY STATISTICS

| DOSE | F3/2PPB TO CTL | F1 10PPB | F1/10PPB TO CTL | F3/10 PPB TO CTL |
|---|-----------------------|-----------------|------------------------|-------------------------|
| SURVIVAL AT END OF STUDY (KAPLAN-MEIER) | 55.1% | 60.0% | 70.0% | 62.0% |
| SIGNIFICANCE (B) (LIFE TABLE) | P=0.265 | P=0.580 | P=1.000N | P=0.664 |
| MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR) | 616.4 (24.0) | 638.5 (18.0) | 571.1 (46.1) | 594.2 (36.4) |
| MEAN LIFE SPAN (D) (STANDARD ERROR) | 687.3 (14.1) | 702.4 (10.3) | 690.7 (18.3) | 687.7 (17.2) |

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

Male RAT
FIRST TERMINAL SACRIFICE AT 745 DAYS

SURVIVAL SUMMARY STATISTICS

| DOSE | F1 50PPB | F1/50PPB TO CTL | F3/50 PPB TO CTL |
|---|-----------------|-----------------|------------------|
| SURVIVAL AT END OF STUDY (KAPLAN-MEIER) | 70.0% | 72.0% | 70.0% |
| SIGNIFICANCE (B) (LIFE TABLE) | P=1.000N | P=0.926N | P=0.954N |
| MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR) | 585.9 (41.6) | 630.4 (19.8) | 576.5 (51.4) |
| MEAN LIFE SPAN (D) (STANDARD ERROR) | 696.3 (16.3) | 710.9 (9.6) | 694.5 (18.7) |

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 Lab: NCTR

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

| DOSE = F1 0PPB | | | | | | | | | | | | | |
|------------------------------|-----|-----|----------------------|-----|-----|-----|-------------------|-----|-----|-------------|-----|-----|-----|
| TOTAL 51 | | | UNCENSORED DEATHS 24 | | | | CENSORED DEATHS 0 | | | TERMINAL 27 | | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 529 | 539 | 568 | 595 | 598 | 614 | 631 | 645 | 649 | 653 | 668 | 669 | 672 | 675 |
| 679 | 679 | 686 | 690 | 700 | 702 | 713 | 717 | 720 | 720 | | | | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| none | | | | | | | | | | | | | |
| DOSE = F3 0PPB | | | | | | | | | | | | | |
| TOTAL 52 | | | UNCENSORED DEATHS 25 | | | | CENSORED DEATHS 0 | | | TERMINAL 27 | | | |
| 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 = F1 2PPB | | | | | | | | | | | | | |
| TOTAL 50 | | | UNCENSORED DEATHS 26 | | | | CENSORED DEATHS 0 | | | TERMINAL 23 | | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 87 | 349 | 468 | 499 | 504 | 563 | 594 | 595 | 602 | 624 | 643 | 644 | 652 | 667 |
| 667 | 678 | 684 | 686 | 691 | 702 | 705 | 712 | 728 | 729 | 730 | 739 | | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| none | | | | | | | | | | | | | |
| DOSE = F1/2PPB TO CTL | | | | | | | | | | | | | |
| TOTAL 50 | | | UNCENSORED DEATHS 31 | | | | CENSORED DEATHS 0 | | | TERMINAL 17 | | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 87 | 406 | 452 | 503 | 509 | 514 | 515 | 530 | 538 | 542 | 569 | 592 | 597 | 618 |
| 618 | 620 | 632 | 634 | 661 | 666 | 670 | 673 | 675 | 683 | 685 | 689 | 725 | 729 |
| 730 | 736 | 737 | | | | | | | | | | | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| 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

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

| | | | | | | | | | | | | | |
|-------------------------------|-----|-----|----------------------|-----|-----|-----|-------------------|-----|-----|-------------|-----|-----|-----|
| DOSE = F3 /2PPB TO CTL | | | | | | | | | | | | | |
| TOTAL 50 | | | UNCENSORED DEATHS 21 | | | | CENSORED DEATHS 0 | | | TERMINAL 29 | | | |
| 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 = F1 10 PPB | | | | | | | | | | | | | |
| TOTAL 50 | | | UNCENSORED DEATHS 30 | | | | CENSORED DEATHS 0 | | | TERMINAL 19 | | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 275 | 391 | 538 | 555 | 555 | 575 | 579 | 582 | 583 | 604 | 632 | 634 | 645 | 657 |
| 666 | 673 | 675 | 676 | 687 | 688 | 695 | 701 | 703 | 709 | 715 | 725 | 727 | 730 |
| 734 | 737 | | | | | | | | | | | | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| none | | | | | | | | | | | | | |
| DOSE = F1/10PPB TO CTL | | | | | | | | | | | | | |
| TOTAL 50 | | | UNCENSORED DEATHS 26 | | | | CENSORED DEATHS 0 | | | TERMINAL 22 | | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 254 | 477 | 491 | 510 | 519 | 537 | 546 | 561 | 566 | 612 | 632 | 639 | 641 | 646 |
| 668 | 674 | 687 | 701 | 702 | 714 | 715 | 717 | 724 | 730 | 737 | 738 | | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| none | | | | | | | | | | | | | |
| DOSE = F3/10PPB TO CTL | | | | | | | | | | | | | |
| TOTAL 50 | | | UNCENSORED DEATHS 28 | | | | CENSORED DEATHS 0 | | | TERMINAL 22 | | | |
| 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 | | | | | | | | | | | | | |

(A) FIRST TERMINAL SACRIFICE

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(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

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

Experiment Number: 99920-92
Test Type: MULTIGEN CHRONIC
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: 12:41:09
First Dose M/F: NA / NA
Lab: NCTR

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

| DOSE = F1 50 PPB | | | | | | | | | | | | | |
|-------------------------------|-----|-----|----------------------|-----|-----|-----|-------------------|-----|-----|-----|-------------|-----|-----|
| TOTAL 50 | | | UNCENSORED DEATHS 25 | | | | CENSORED DEATHS 0 | | | | TERMINAL 25 | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 289 | 516 | 584 | 592 | 597 | 614 | 626 | 646 | 650 | 653 | 654 | 658 | 666 | 666 |
| 670 | 680 | 687 | 689 | 701 | 706 | 711 | 722 | 726 | 727 | 730 | | | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| none | | | | | | | | | | | | | |
| DOSE = F1/50PPB TO CTL | | | | | | | | | | | | | |
| TOTAL 50 | | | UNCENSORED DEATHS 27 | | | | CENSORED DEATHS 0 | | | | TERMINAL 22 | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 404 | 495 | 511 | 561 | 574 | 593 | 598 | 617 | 620 | 632 | 645 | 652 | 653 | 665 |
| 667 | 689 | 695 | 696 | 698 | 701 | 702 | 715 | 724 | 728 | 736 | 738 | 742 | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| none | | | | | | | | | | | | | |
| DOSE = F3/50PPB TO CTL | | | | | | | | | | | | | |
| TOTAL 50 | | | UNCENSORED DEATHS 24 | | | | CENSORED DEATHS 0 | | | | TERMINAL 25 | | |
| 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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Experiment Number: 99920-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
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CAS Number: 57-63-6

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

Female RAT
 FIRST TERMINAL SACRIFICE AT 745 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

| DOSE | TIME (DAYS) | | | | | | | | | |
|-----------------|-------------|-------|-------|-------|-------|-------|------|------|------|--------|
| | 90 | 180 | 270 | 365 | 425 | 485 | 545 | 605 | 665 | 745(A) |
| F1 0PPB | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.1 | 90.2 | 80.4 | 52.9 |
| F3 0PPB | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 96.2 | 92.3 | 80.8 | 69.2 | 51.9 |
| F1 2PPB | 98.0 | 98.0 | 98.0 | 96.0 | 96.0 | 94.0 | 90.0 | 82.0 | 74.0 | 48.0 |
| F1/2PPB TO CTL | 98.0 | 98.0 | 98.0 | 98.0 | 96.0 | 94.0 | 80.0 | 74.0 | 62.0 | 38.0 |
| F3 /2PPB TO CTL | 100.0 | 100.0 | 100.0 | 100.0 | 98.0 | 98.0 | 92.0 | 84.0 | 78.0 | 58.0 |
| F1 10 PPB | 100.0 | 100.0 | 100.0 | 98.0 | 96.0 | 96.0 | 94.0 | 80.0 | 72.0 | 40.0 |
| F1/10PPB TO CTL | 100.0 | 100.0 | 98.0 | 98.0 | 98.0 | 96.0 | 88.0 | 82.0 | 72.0 | 48.0 |
| F3/10PPB TO CTL | 100.0 | 98.0 | 96.0 | 96.0 | 96.0 | 96.0 | 90.0 | 86.0 | 76.0 | 44.0 |
| F1 50 PPB | 100.0 | 100.0 | 100.0 | 98.0 | 98.0 | 98.0 | 96.0 | 90.0 | 76.0 | 50.0 |
| F1/50PPB TO CTL | 100.0 | 100.0 | 100.0 | 100.0 | 98.0 | 98.0 | 94.0 | 86.0 | 72.0 | 46.0 |
| F3/50PPB TO 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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Lab: NCTR

Female RAT
FIRST TERMINAL SACRIFICE AT 745 DAYS

SURVIVAL SUMMARY STATISTICS

| DOSE | F1 0PPB | F3 0PPB | F1 2PPB | F1/2PPB TO CTL |
|---|-----------------|-----------------|-----------------|-----------------------|
| SURVIVAL AT END OF STUDY (KAPLAN-MEIER) | 52.9% | 51.9% | 48.0% | 38.0% |
| SIGNIFICANCE (B) (LIFE TABLE) | P=0.891N | ----- | P=0.600 | P=0.055 |
| MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR) | 654.6 (11.3) | 609.0 (27.4) | 613.2 (28.0) | 597.9 (23.3) |
| MEAN LIFE SPAN (D) (STANDARD ERROR) | 702.5 (8.3) | 679.6 (16.1) | 675.0 (17.5) | 650.0 (18.1) |

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Female RAT
FIRST TERMINAL SACRIFICE AT 745 DAYS

SURVIVAL SUMMARY STATISTICS

| DOSE | F3 /2PPB TO CTL | F1 10 PPB | F1/10PPB TO CTL | F3/10PPB TO CTL |
|---|------------------------|------------------|------------------------|------------------------|
| SURVIVAL AT END OF STUDY (KAPLAN-MEIER) | 58.0% | 40.0% | 48.0% | 44.0% |
| SIGNIFICANCE (B) (LIFE TABLE) | P=0.779N | P=0.222 | P=0.528 | P=0.508 |
| MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR) | 627.3 (19.3) | 634.9 (18.8) | 620.7 (22.0) | 622.0 (27.6) |
| MEAN LIFE SPAN (D) (STANDARD ERROR) | 695.6 (11.5) | 677.6 (13.8) | 677.7 (14.9) | 676.1 (17.6) |

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Female RAT
FIRST TERMINAL SACRIFICE AT 745 DAYS

SURVIVAL SUMMARY STATISTICS

| DOSE | F1 50 PPB | F1/50PPB TO CTL | F3/50PPB TO CTL |
|---|-----------------|-----------------|-----------------|
| SURVIVAL AT END OF STUDY (KAPLAN-MEIER) | 50.0% | 46.0% | 52.0% |
| SIGNIFICANCE (B) (LIFE TABLE) | P=0.909 | P=0.550 | P=0.755 |
| MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR) | 646.4 (18.2) | 646.3 (16.0) | 584.9 (26.2) |
| MEAN LIFE SPAN (D) (STANDARD ERROR) | 695.7 (11.4) | 690.6 (11.2) | 666.6 (17.2) |

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