Experiment Number: 20209 - 04
Test Type: CHRONIC
Route: Gavage
Species/Strain: MICE/B6C3F1

NTP Study Number: C20209
Lock Date: 08/31/2011
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.1_001
PWG Approval Date: NONE

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/14/2014
Time Report Requested: 07:47:55
First Dose M/F: 02/25/08 / 02/25/08
Lab: SRI
<table>
<thead>
<tr>
<th>DOSE = 0 MG/KG</th>
<th>UNCENSORED DEATHS 20</th>
<th>CENSORED DEATHS 1</th>
<th>TERMINAL 29</th>
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</thead>
<tbody>
<tr>
<td>TOTAL 50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UNCENSORED DEATH DAYS</td>
<td>298 491 494 521 568 569 584 589 592 598 600 600 600 600 606</td>
<td></td>
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</tr>
<tr>
<td>CENSORED DEATH DAYS</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>DOSE = 3 MG/KG</th>
<th>UNCENSORED DEATHS 17</th>
<th>CENSORED DEATHS 0</th>
<th>TERMINAL 33</th>
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</thead>
<tbody>
<tr>
<td>TOTAL 50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UNCENSORED DEATH DAYS</td>
<td>428 540 556 557 564 591 596 603 614 618 620 626 684 689</td>
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<tr>
<td>CENSORED DEATH DAYS</td>
<td>None</td>
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</table>

<table>
<thead>
<tr>
<th>DOSE = 30 MG/KG</th>
<th>UNCENSORED DEATHS 19</th>
<th>CENSORED DEATHS 0</th>
<th>TERMINAL 31</th>
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<tbody>
<tr>
<td>TOTAL 50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UNCENSORED DEATH DAYS</td>
<td>431 453 453 551 581 612 618 627 656 656 684 684 684 708</td>
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<td></td>
</tr>
<tr>
<td>CENSORED DEATH DAYS</td>
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<tr>
<td>Experiment Number:</td>
<td>20209 - 04</td>
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<tr>
<td>Test Type:</td>
<td>CHRONIC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Route:</td>
<td>GAVAGE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Species/Strain:</td>
<td>MICE/B6C3F1</td>
<td></td>
<td></td>
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<tr>
<td>DOSE = 100 MG/KG</td>
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<table>
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<tr>
<th>TOTAL 50</th>
<th>UNCENSORED DEATHS 48</th>
<th>CENSORED DEATHS 2</th>
<th>TERMINAL 0</th>
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<tr>
<td>UNCENSORED DEATH DAYS</td>
<td>442</td>
<td>451</td>
<td>451</td>
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<tr>
<td></td>
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<td>3</td>
</tr>
<tr>
<td>CENSORED DEATH DAYS</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

MALE MICE
FIRST TERMINAL SACRIFICE AT 729 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)
## MALE MICE
FIRST TERMINAL SACRIFICE AT 729 DAYS

### KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

<table>
<thead>
<tr>
<th>DOSE</th>
<th>90</th>
<th>180</th>
<th>270</th>
<th>365</th>
<th>425</th>
<th>485</th>
<th>545</th>
<th>605</th>
<th>665</th>
<th>729(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 MG/KG</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>98.0</td>
<td>98.0</td>
<td>98.0</td>
<td>91.8</td>
<td>73.5</td>
<td>65.3</td>
<td>59.2</td>
</tr>
<tr>
<td>3 MG/KG</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>98.0</td>
<td>96.0</td>
<td>84.0</td>
<td>76.0</td>
<td>66.0</td>
<td></td>
</tr>
<tr>
<td>30 MG/KG</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>94.0</td>
<td>94.0</td>
<td>90.0</td>
<td>80.0</td>
<td>62.0</td>
<td></td>
</tr>
<tr>
<td>100 MG/KG</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>87.5</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td></td>
</tr>
</tbody>
</table>

(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)
**SURVIVAL SUMMARY STATISTICS**

<table>
<thead>
<tr>
<th>DOSE</th>
<th>0 MG/KG</th>
<th>3 MG/KG</th>
<th>30 MG/KG</th>
<th>100 MG/KG</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURVIVAL AT END OF STUDY (KAPLAN-MEIER)</td>
<td>59.2%</td>
<td>66.0%</td>
<td>62.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>SIGNIFICANCE (B) (LIFE TABLE)</td>
<td>P&lt;0.001</td>
<td>P=0.520N</td>
<td>P=0.673N</td>
<td>P&lt;0.001</td>
</tr>
<tr>
<td>MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)</td>
<td>585.9 (20.1)</td>
<td>610.8 (17.4)</td>
<td>629.5 (21.7)</td>
<td>525.8 (4.0)</td>
</tr>
<tr>
<td>MEAN LIFE SPAN (D) (STANDARD ERROR)</td>
<td>657.2 (18.4)</td>
<td>688.8 (9.9)</td>
<td>691.2 (10.7)</td>
<td>504.9 (15.1)</td>
</tr>
</tbody>
</table>

(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)
### DOSE = 0 MG/KG

<table>
<thead>
<tr>
<th>Total 50</th>
<th>Uncensored deaths 16</th>
<th>Censored deaths 1</th>
<th>Terminal 33</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uncensored death days</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>340</td>
<td>438</td>
<td>579</td>
<td>587</td>
</tr>
<tr>
<td>697</td>
<td>698</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Censored death days | 4 |

### DOSE = 3 MG/KG

<table>
<thead>
<tr>
<th>Total 50</th>
<th>Uncensored deaths 15</th>
<th>Censored deaths 0</th>
<th>Terminal 35</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uncensored death days</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>421</td>
<td>473</td>
<td>522</td>
<td>568</td>
</tr>
<tr>
<td>715</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Censored death days | None |

### DOSE = 30 MG/KG

<table>
<thead>
<tr>
<th>Total 50</th>
<th>Uncensored deaths 12</th>
<th>Censored deaths 1</th>
<th>Terminal 37</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uncensored death days</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>535</td>
<td>563</td>
<td>575</td>
<td>598</td>
</tr>
</tbody>
</table>

| Censored death days | 3 |
DOSE = 100 MG/KG

<table>
<thead>
<tr>
<th>TOTAL 50</th>
<th>UNCENSORED DEATHS 50</th>
<th>CENSORED DEATHS 0</th>
<th>TERMINAL 0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**UNCENSORED DEATH DAYS**

- 366
- 432
- 459
- 496
- 515
- 515
- 524
- 535
- 535
- 542
- 542
- 542
- 542
- 542
- 542
- 542
- 542
- 542
- 542
- 542

**CENSORED DEATH DAYS**

- None
### Kaplan-Meier Survival Probability Estimates (%)

<table>
<thead>
<tr>
<th>DOSE</th>
<th>90</th>
<th>180</th>
<th>270</th>
<th>365</th>
<th>425</th>
<th>485</th>
<th>545</th>
<th>605</th>
<th>665</th>
<th>729(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 MG/KG</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>98.0</td>
<td>98.0</td>
<td>95.9</td>
<td>95.9</td>
<td>85.7</td>
<td>81.6</td>
<td>67.3</td>
</tr>
<tr>
<td>3 MG/KG</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>98.0</td>
<td>96.0</td>
<td>94.0</td>
<td>88.0</td>
<td>82.0</td>
<td>70.0</td>
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<tr>
<td>30 MG/KG</td>
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<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>98.0</td>
<td>91.8</td>
<td>89.8</td>
<td>75.5</td>
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<tr>
<td>100 MG/KG</td>
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<td>100.0</td>
<td>98.0</td>
<td>94.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

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(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)
### SURVIVAL SUMMARY STATISTICS

<table>
<thead>
<tr>
<th>DOSE</th>
<th>0 MG/KG</th>
<th>3 MG/KG</th>
<th>30 MG/KG</th>
<th>100 MG/KG</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SURVIVAL AT END OF STUDY</strong> (KAPLAN-MEIER)</td>
<td>67.3%</td>
<td>70.0%</td>
<td>75.5%</td>
<td>0.0%</td>
</tr>
<tr>
<td><strong>SIGNIFICANCE (B)</strong> (LIFE TABLE)</td>
<td>P&lt;0.001</td>
<td>P=0.932N</td>
<td>P=0.443N</td>
<td>P&lt;0.001</td>
</tr>
<tr>
<td><strong>MEAN DAY OF NATURAL DEATHS (C)</strong> (STANDARD ERROR)</td>
<td>614.8 (25.1)</td>
<td>614.0 (23.0)</td>
<td>648.8 (18.3)</td>
<td>531.8 (4.5)</td>
</tr>
<tr>
<td><strong>MEAN LIFE SPAN (D)</strong> (STANDARD ERROR)</td>
<td>678.0 (17.6)</td>
<td>694.5 (10.1)</td>
<td>695.2 (15.5)</td>
<td>531.8 (4.5)</td>
</tr>
</tbody>
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---

**FEMALE MICE**  
FIRST TERMINAL SACRIFICE AT **729 DAYS**

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*** END OF REPORT ***

---

- **(A)** FIRST TERMINAL SACRIFICE
- **(C)** MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE
- **(D)** MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)