

Study Number: C02047-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Sprague Dawley

C Number:

Study Gender:

PWG Approval Date

PA43: Hematology Summary

Test Compound: Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

CAS Number: 21850-44-2

C02047-01

Male

See web page for date of PWG Approval

Date Report Requested: 04/26/2019

Time Report Requested: 07:37:18

Lab: Battelle

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| | Phase Day | Treatment Groups (mg/kg) | | | |
|---|-----------|--------------------------|-------------------|------------------|------------------|
| | | 0 | 0.1 | 0.94 | 9.4 |
| Hematocrit (%) | SD 5 | 49.7 ± 0.9 (6) | 56.2 ± 2.2 (6) * | 53.3 ± 1.6 (6) | 55.7 ± 1.9 (6) * |
| Percent of Control | | | 113.0 | 107.1 | 112.0 |
| Manual Hematocrit (%) | SD 5 | 48.0 ± 0.6 (6) | 54.2 ± 2.1 (6) * | 51.5 ± 1.6 (6) | 53.0 ± 1.5 (6) * |
| Percent of Control | | | 112.8 | 107.3 | 110.4 |
| Hemoglobin (g/dL) | SD 5 | 14.7 ± 0.2 (6) | 16.1 ± 0.6 (6) | 15.6 ± 0.4 (6) | 16.0 ± 0.4 (6) * |
| Percent of Control | | | 109.8 | 106.5 | 109.3 |
| Erythrocytes (10 ⁶ /uL) | SD 5 | 7.50 ± 0.16 (6) | 8.52 ± 0.40 (6) * | 8.06 ± 0.26 (6) | 8.32 ± 0.30 (6) |
| Percent of Control | | | 113.55 | 107.35 | 110.84 |
| Reticulocytes (10 ³ /uL) | SD 5 | 402.0 ± 17.2 (6) | 430.4 ± 37.0 (6) | 379.6 ± 11.0 (6) | 421.4 ± 27.2 (6) |
| Percent of Control | | | 107.1 | 94.4 | 104.8 |
| Nucleated Red Blood Cells (/100 WBC) | SD 5 | 0.00 ± 0.00 (6) | 0.00 ± 0.00 (6) | 0.00 ± 0.00 (6) | 0.17 ± 0.17 (6) |
| Mean Cell Volume (fL) | SD 5 | 66.3 ± 0.6 (6) | 66.0 ± 0.7 (6) | 66.2 ± 0.6 (6) | 67.0 ± 0.3 (6) |
| Percent of Control | | | 99.5 | 99.8 | 101.0 |
| Mean Cell Hemoglobin (pg) | SD 5 | 19.5 ± 0.2 (6) | 19.0 ± 0.3 (6) | 19.4 ± 0.3 (6) | 19.3 ± 0.2 (6) |
| Percent of Control | | | 97.1 | 99.3 | 98.8 |
| Mean Cell Hemoglobin Concentration (g/dL) | SD 5 | 29.4 ± 0.2 (6) | 28.7 ± 0.1 (6) * | 29.3 ± 0.2 (6) | 28.8 ± 0.2 (6) |
| Percent of Control | | | 97.5 | 99.5 | 97.8 |
| Platelets (10 ³ /uL) | SD 5 | 975 ± 45 (6) | 901 ± 58 (6) | 836 ± 51 (6) | 924 ± 43 (6) |
| Percent of Control | | | 92 | 86 | 95 |
| White Blood Cells (10 ³ /uL) | SD 5 | 13.81 ± 1.52 (6) | 11.67 ± 1.82 (6) | 12.79 ± 0.77 (6) | 12.56 ± 1.24 (6) |
| Percent of Control | | | 84.55 | 92.67 | 90.95 |
| Neutrophils (10 ³ /uL) | SD 5 | 1.08 ± 0.09 (6) | 0.87 ± 0.15 (6) | 1.08 ± 0.13 (6) | 1.18 ± 0.26 (6) |

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| | Phase Day | Treatment Groups (mg/kg) | | | |
|---|-----------|--------------------------|------------------|------------------|------------------|
| | | 0 | 0.1 | 0.94 | 9.4 |
| Percent of Control | | | 81.09 | 100.31 | 109.77 |
| Lymphocytes (10 ³ /uL) | SD 5 | 11.91 ± 1.31 (6) | 10.07 ± 1.57 (6) | 10.88 ± 0.65 (6) | 10.60 ± 0.94 (6) |
| Percent of Control | | | 84.53 | 91.41 | 88.98 |
| Monocytes (10 ³ /uL) | SD 5 | 0.57 ± 0.09 (6) | 0.49 ± 0.08 (6) | 0.53 ± 0.05 (6) | 0.56 ± 0.08 (6) |
| Percent of Control | | | 86.47 | 92.65 | 99.41 |
| Basophils (10 ³ /uL) | SD 5 | 0.11 ± 0.02 (6) | 0.09 ± 0.02 (6) | 0.09 ± 0.01 (6) | 0.08 ± 0.01 (6) |
| Percent of Control | | | 84.38 | 85.94 | 76.56 |
| Eosinophils (10 ³ /uL) | SD 5 | 0.05 ± 0.01 (6) | 0.07 ± 0.03 (6) | 0.12 ± 0.06 (6) | 0.05 ± 0.01 (6) |
| Percent of Control | | | 141.38 | 255.17 | 100.00 |
| Large Unstained Cells (10 ³ /uL) | SD 5 | 0.10 ± 0.01 (6) | 0.09 ± 0.02 (6) | 0.09 ± 0.01 (6) | 0.09 ± 0.02 (6) |
| Percent of Control | | | 83.61 | 88.52 | 83.61 |

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| | Phase Day | Treatment Groups (mg/kg) | |
|---|-----------|--------------------------|------------------|
| | | 94.3 | 943 |
| Hematocrit (%) | SD 5 | 52.0 ± 0.9 (6) | 54.4 ± 1.4 (6) |
| Percent of Control | | 104.6 | 109.3 |
| Manual Hematocrit (%) | SD 5 | 50.5 ± 0.8 (6) | 52.0 ± 1.4 (6) |
| Percent of Control | | 105.2 | 108.3 |
| Hemoglobin (g/dL) | SD 5 | 15.1 ± 0.3 (6) | 15.6 ± 0.3 (6) |
| Percent of Control | | 102.7 | 106.5 |
| Erythrocytes (10 ⁶ /uL) | SD 5 | 7.84 ± 0.19 (6) | 8.08 ± 0.21 (6) |
| Percent of Control | | 104.51 | 107.66 |
| Reticulocytes (10 ³ /uL) | SD 5 | 401.1 ± 35.2 (6) | 401.6 ± 20.0 (6) |
| Percent of Control | | 99.8 | 99.9 |
| Nucleated Red Blood Cells (/100 WBC) | SD 5 | 0.17 ± 0.17 (6) | 0.00 ± 0.00 (6) |
| Mean Cell Volume (fL) | SD 5 | 66.5 ± 1.1 (6) | 67.3 ± 0.3 (6) |
| Percent of Control | | 100.2 | 101.4 |
| Mean Cell Hemoglobin (pg) | SD 5 | 19.2 ± 0.3 (6) | 19.3 ± 0.1 (6) |
| Percent of Control | | 98.5 | 98.9 |
| Mean Cell Hemoglobin Concentration (g/dL) | SD 5 | 28.9 ± 0.1 (6) | 28.7 ± 0.1 (6) |
| Percent of Control | | 98.4 | 97.6 |
| Platelets (10 ³ /uL) | SD 5 | 911 ± 65 (6) | 1052 ± 20 (6) |
| Percent of Control | | 93 | 108 |
| White Blood Cells (10 ³ /uL) | SD 5 | 13.94 ± 1.38 (6) | 12.28 ± 1.03 (6) |
| Percent of Control | | 101.00 | 88.93 |
| Neutrophils (10 ³ /uL) | SD 5 | 1.18 ± 0.12 (6) | 1.05 ± 0.06 (6) |

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|---|-----------|--------------------------|------------------|
| | | 94.3 | 943 |
| Percent of Control | | 109.92 | 97.21 |
| Lymphocytes (10 ³ /uL) | SD 5 | 11.91 ± 1.20 (6) | 10.44 ± 0.91 (6) |
| Percent of Control | | 100.00 | 87.64 |
| Monocytes (10 ³ /uL) | SD 5 | 0.61 ± 0.10 (6) | 0.58 ± 0.11 (6) |
| Percent of Control | | 107.35 | 101.76 |
| Basophils (10 ³ /uL) | SD 5 | 0.10 ± 0.02 (6) | 0.09 ± 0.01 (6) |
| Percent of Control | | 96.88 | 87.50 |
| Eosinophils (10 ³ /uL) | SD 5 | 0.05 ± 0.01 (6) | 0.04 ± 0.01 (6) |
| Percent of Control | | 100.00 | 82.76 |
| Large Unstained Cells (10 ³ /uL) | SD 5 | 0.10 ± 0.02 (6) | 0.09 ± 0.01 (6) |
| Percent of Control | | 93.44 | 85.25 |

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LEGEND

Values given as mean \pm SEM (N) with Percent of Control calculated by (dosed group mean / control group mean) x 100

SD – Study Day

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests (unless otherwise noted).

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

**** END OF REPORT ****