

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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Male: Core Males

	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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	Phase Day	Treatment Groups (mg/kg)	
		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 ****