

**Study Number:** C98090C-01  
**Test Type:** TOX  
**Route:** Oral Gavage  
**Species/Strain:** Rat/Sprague Dawley

**PA43: Hematology Summary**  
**Test Compound:** 2,2',4,4'-Tetrabromodiphenyl Ether  
**CAS Number:** 5436-43-1

**Date Report Requested:** 04/08/2019  
**Time Report Requested:** 11:28:08  
**Lab:** Battelle

**C Number:** C98090C-01  
**Study Gender:** Male  
**PWG Approval Date** See web page for date of PWG Approval

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	Phase Day	Treatment Groups (mg/kg)			
		0	0.0485	0.485	4.85
Hematocrit (%)	SD 5	51.8 ± 2.0 (4)	49.8 ± 1.2 (5)	38.0 ± 8.8 (5) *	49.3 ± 0.3 (5)
Percent of Control			96.2	73.4	95.2
Manual Hematocrit (%)	SD 5	51.0 ± 1.4 (4)	51.8 ± 3.3 (5)	46.4 ± 0.7 (5) *	49.0 ± 0.6 (5)
Percent of Control			101.6	91.0	96.1
Hemoglobin (g/dL)	SD 5	15.3 ± 0.5 (4)	14.8 ± 0.4 (5)	11.5 ± 2.3 (5) **	14.6 ± 0.1 (5)
Percent of Control			96.8	75.1	95.6
Erythrocytes (10 <sup>6</sup> /uL)	SD 5	7.75 ± 0.28 (4)	7.64 ± 0.16 (5)	5.82 ± 1.35 (5)	7.43 ± 0.10 (5)
Percent of Control			98.58	75.05	95.87
Reticulocytes (10 <sup>3</sup> /uL)	SD 5	401.2 ± 20.8 (4) *	385.1 ± 29.4 (5)	305.8 ± 70.5 (5)	397.8 ± 8.2 (5)
Percent of Control			96.0	76.2	99.2
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.25 ± 0.25 (4)	0.00 ± 0.00 (5)	0.00 ± 0.00 (5)	0.00 ± 0.00 (5)
Percent of Control			0.00	0.00	0.00
Mean Cell Volume (fL)	SD 5	66.8 ± 0.2 (4)	65.2 ± 0.7 (5)	65.5 ± 0.8 (5)	66.4 ± 0.5 (5)
Percent of Control			97.6	98.0	99.3
Mean Cell Hemoglobin (pg)	SD 5	19.7 ± 0.2 (4)	19.3 ± 0.1 (5)	24.8 ± 5.6 (5)	19.6 ± 0.2 (5)
Percent of Control			98.1	126.0	99.8
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	29.5 ± 0.3 (4)	29.6 ± 0.2 (5)	37.8 ± 8.4 (5)	29.6 ± 0.2 (5)
Percent of Control			100.5	128.4	100.3
Platelets (10 <sup>3</sup> /uL)	SD 5	773 ± 112 (4)	915 ± 37 (5)	811 ± 198 (5)	964 ± 17 (5)
Percent of Control			118	105	125
White Blood Cells (10 <sup>3</sup> /uL)	SD 5	13.24 ± 1.44 (4) **	14.69 ± 0.54 (5)	14.87 ± 0.65 (5)	13.24 ± 0.82 (5)
Percent of Control			110.98	112.33	100.00

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	Phase Day	Treatment Groups (mg/kg)			
		0	0.0485	0.485	4.85
Neutrophils (10 <sup>3</sup> /uL)	SD 5	0.95 ± 0.12 (4)	0.85 ± 0.05 (5)	1.03 ± 0.04 (5)	0.94 ± 0.10 (5)
Percent of Control			89.89	108.84	98.53
Lymphocytes (10 <sup>3</sup> /uL)	SD 5	11.33 ± 1.23 (4) **	12.88 ± 0.40 (5)	12.79 ± 0.63 (5)	11.43 ± 0.82 (5)
Percent of Control			113.67	112.90	100.83
Monocytes (10 <sup>3</sup> /uL)	SD 5	0.66 ± 0.18 (4)	0.67 ± 0.11 (5)	0.74 ± 0.17 (5)	0.65 ± 0.07 (5)
Percent of Control			102.51	113.16	98.56
Basophils (10 <sup>3</sup> /uL)	SD 5	0.10 ± 0.02 (4) **	0.10 ± 0.01 (5)	0.10 ± 0.01 (5)	0.09 ± 0.01 (5)
Percent of Control			98.46	104.62	90.26
Eosinophils (10 <sup>3</sup> /uL)	SD 5	0.08 ± 0.04 (4)	0.06 ± 0.01 (5)	0.08 ± 0.03 (5)	0.04 ± 0.00 (5)
Percent of Control			70.59	96.47	44.71
Large Unstained Cells (10 <sup>3</sup> /uL)	SD 5	0.12 ± 0.03 (4)	0.12 ± 0.02 (5)	0.11 ± 0.01 (5)	0.10 ± 0.01 (5)
Percent of Control			107.83	99.13	88.70

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	Phase Day	Treatment Groups (mg/kg)	
		48.5	485
Hematocrit (%)	SD 5	50.0 ± 2.0 (6)	49.6 ± 1.7 (6)
Percent of Control		96.6	95.7
Manual Hematocrit (%)	SD 5	49.0 ± 2.0 (6)	49.3 ± 1.9 (6)
Percent of Control		96.1	96.7
Hemoglobin (g/dL)	SD 5	14.6 ± 0.5 (6)	14.8 ± 0.5 (6)
Percent of Control		95.6	96.8
Erythrocytes (10 <sup>6</sup> /uL)	SD 5	7.61 ± 0.26 (6)	7.63 ± 0.23 (6)
Percent of Control		98.15	98.47
Reticulocytes (10 <sup>3</sup> /uL)	SD 5	409.2 ± 25.1 (6)	254.4 ± 15.7 (6) *
Percent of Control		102.0	63.4
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (6)	0.00 ± 0.00 (6)
Percent of Control		0.00	0.00
Mean Cell Volume (fL)	SD 5	65.7 ± 0.6 (6)	64.9 ± 0.9 (6)
Percent of Control		98.4	97.2
Mean Cell Hemoglobin (pg)	SD 5	19.2 ± 0.1 (6)	19.4 ± 0.2 (6)
Percent of Control		97.6	98.3
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	29.2 ± 0.2 (6)	29.8 ± 0.2 (6)
Percent of Control		99.1	101.2
Platelets (10 <sup>3</sup> /uL)	SD 5	894 ± 112 (6)	1057 ± 79 (6)
Percent of Control		116	137
White Blood Cells (10 <sup>3</sup> /uL)	SD 5	13.03 ± 1.01 (6)	9.86 ± 0.89 (6)
Percent of Control		98.44	74.46

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	Phase Day	Treatment Groups (mg/kg)	
		48.5	485
Neutrophils (10 <sup>3</sup> /uL)	SD 5	0.91 ± 0.07 (6)	0.64 ± 0.09 (6)
Percent of Control		95.26	67.54
Lymphocytes (10 <sup>3</sup> /uL)	SD 5	11.25 ± 0.92 (6)	8.52 ± 0.82 (6)
Percent of Control		99.29	75.18
Monocytes (10 <sup>3</sup> /uL)	SD 5	0.59 ± 0.06 (6)	0.49 ± 0.09 (6)
Percent of Control		89.48	74.78
Basophils (10 <sup>3</sup> /uL)	SD 5	0.08 ± 0.01 (6)	0.06 ± 0.01 (6) *
Percent of Control		78.63	58.12
Eosinophils (10 <sup>3</sup> /uL)	SD 5	0.11 ± 0.06 (6)	0.07 ± 0.04 (6)
Percent of Control		133.33	82.35
Large Unstained Cells (10 <sup>3</sup> /uL)	SD 5	0.10 ± 0.02 (6)	0.08 ± 0.02 (6)
Percent of Control		84.06	69.57

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#### LEGEND

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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 \*\***