

**Study Number:** C13063-01

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Sprague Dawley

**C Number:**

**Study Gender:**

**PWG Approval Date**

**PA43: Hematology Summary**

**Test Compound:** 2-ethylhexyl-2,3,4,5-tetrabromobenzoate

**CAS Number:** 183658-27-7

C13063-01

Male

See web page for date of PWG Approval

**Date Report Requested:** 04/08/2019

**Time Report Requested:** 10:58:17

**Lab:** Battelle

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Male: Core Males

	Phase Day	Treatment Groups (mg/kg)			
		0	0.05	0.55	5.5
Hematocrit (%)	SD 5	51.8 ± 3.8 (4)	48.1 ± 0.8 (6)	49.7 ± 1.8 (6)	51.0 ± 3.0 (5)
Percent of Control			92.8	96.0	98.5
Manual Hematocrit (%)	SD 5	49.8 ± 2.9 (4)	46.7 ± 0.8 (6)	49.2 ± 1.7 (6)	46.2 ± 3.7 (6)
Percent of Control			93.8	98.8	92.8
Hemoglobin (g/dL)	SD 5	15.9 ± 1.1 (3)	14.3 ± 0.2 (6)	15.0 ± 0.4 (6)	15.3 ± 0.8 (5)
Percent of Control			90.3	94.3	96.3
Erythrocytes (10 <sup>6</sup> /uL)	SD 5	7.87 ± 0.48 (4)	7.42 ± 0.13 (6)	7.76 ± 0.27 (6)	7.85 ± 0.40 (5)
Percent of Control			94.25	98.59	99.69
Reticulocytes (10 <sup>3</sup> /uL)	SD 5	425.1 ± 30.5 (4) **	400.8 ± 13.7 (6)	405.0 ± 37.9 (6)	407.0 ± 36.9 (5)
Percent of Control			94.3	95.3	95.7
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (4)	0.00 ± 0.00 (6)	0.00 ± 0.00 (6)	0.20 ± 0.20 (5)
Mean Cell Volume (fL)	SD 5	65.6 ± 1.0 (4)	64.8 ± 0.6 (6)	64.0 ± 0.6 (6)	64.9 ± 0.8 (5)
Percent of Control			98.8	97.6	98.9
Mean Cell Hemoglobin (pg)	SD 5	19.6 ± 0.1 (3)	19.4 ± 0.2 (6)	19.3 ± 0.2 (6)	19.5 ± 0.3 (5)
Percent of Control			98.7	98.5	99.3
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	29.4 ± 0.3 (3)	29.9 ± 0.2 (6)	30.2 ± 0.3 (6)	30.0 ± 0.2 (5)
Percent of Control			101.6	102.6	102.0
Platelets (10 <sup>3</sup> /uL)	SD 5	803 ± 174 (4)	887 ± 57 (6)	941 ± 46 (6)	811 ± 168 (5)
Percent of Control			110	117	101
White Blood Cells (10 <sup>3</sup> /uL)	SD 5	11.73 ± 1.08 (4)	16.09 ± 1.02 (6) *	15.06 ± 0.69 (6)	16.10 ± 1.25 (5)
Percent of Control			137.16	128.37	137.25
Neutrophils (10 <sup>3</sup> /uL)	SD 5	1.01 ± 0.16 (4)	1.17 ± 0.11 (6)	1.10 ± 0.12 (6)	1.18 ± 0.09 (5)

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	Phase Day	Treatment Groups (mg/kg)			
		0	0.05	0.55	5.5
Percent of Control			115.88	108.97	116.15
Lymphocytes (10 <sup>3</sup> /uL)	SD 5	10.07 ± 0.89 (4)	13.77 ± 0.95 (6)	12.88 ± 0.74 (6)	13.80 ± 1.06 (5)
Percent of Control			136.69	127.89	137.04
Monocytes (10 <sup>3</sup> /uL)	SD 5	0.40 ± 0.03 (4)	0.85 ± 0.09 (6) *	0.83 ± 0.09 (6) *	0.80 ± 0.19 (5)
Percent of Control			209.94	207.04	198.26
Basophils (10 <sup>3</sup> /uL)	SD 5	0.08 ± 0.01 (4)	0.11 ± 0.01 (6)	0.10 ± 0.01 (6)	0.14 ± 0.04 (5)
Percent of Control			137.37	123.23	164.85
Eosinophils (10 <sup>3</sup> /uL)	SD 5	0.09 ± 0.03 (4)	0.07 ± 0.03 (6)	0.05 ± 0.00 (6)	0.08 ± 0.02 (5)
Percent of Control			83.81	55.24	96.00
Large Unstained Cells (10 <sup>3</sup> /uL)	SD 5	0.07 ± 0.01 (4)	0.12 ± 0.01 (6) *	0.10 ± 0.01 (6)	0.10 ± 0.02 (5)
Percent of Control			169.05	140.48	148.57

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	Phase Day	Treatment Groups (mg/kg)	
		55	550
Hematocrit (%)	SD 5	46.5 ± 1.0 (6)	47.7 ± 0.6 (6)
Percent of Control		89.8	92.1
Manual Hematocrit (%)	SD 5	45.8 ± 1.1 (6)	46.3 ± 0.4 (6)
Percent of Control		92.1	93.1
Hemoglobin (g/dL)	SD 5	14.0 ± 0.2 (6)	14.2 ± 0.2 (6)
Percent of Control		88.0	89.4
Erythrocytes (10 <sup>6</sup> /uL)	SD 5	7.16 ± 0.20 (6)	7.29 ± 0.11 (6)
Percent of Control		90.93	92.64
Reticulocytes (10 <sup>3</sup> /uL)	SD 5	379.2 ± 5.8 (6)	331.9 ± 18.5 (6) *
Percent of Control		89.2	78.1
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.17 ± 0.17 (6)	0.00 ± 0.00 (6)
Mean Cell Volume (fL)	SD 5	65.0 ± 0.4 (6)	65.4 ± 0.3 (6)
Percent of Control		99.1	99.7
Mean Cell Hemoglobin (pg)	SD 5	19.5 ± 0.2 (6)	19.5 ± 0.1 (6)
Percent of Control		99.6	99.2
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	30.0 ± 0.2 (6)	29.7 ± 0.1 (6)
Percent of Control		102.2	101.1
Platelets (10 <sup>3</sup> /uL)	SD 5	880 ± 31 (6)	868 ± 92 (6)
Percent of Control		110	108
White Blood Cells (10 <sup>3</sup> /uL)	SD 5	14.73 ± 0.62 (6)	13.79 ± 1.06 (6)
Percent of Control		125.53	117.56
Neutrophils (10 <sup>3</sup> /uL)	SD 5	1.14 ± 0.05 (6)	1.29 ± 0.11 (6)

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**Male: Core Males**

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	Phase Day	Treatment Groups (mg/kg)	
		55	550
Percent of Control		112.43	127.74
Lymphocytes (10 <sup>3</sup> /uL)	SD 5	12.55 ± 0.52 (6)	11.32 ± 0.95 (6)
Percent of Control		124.58	112.36
Monocytes (10 <sup>3</sup> /uL)	SD 5	0.78 ± 0.09 (6)	0.88 ± 0.16 (6)
Percent of Control		193.37	217.39
Basophils (10 <sup>3</sup> /uL)	SD 5	0.09 ± 0.01 (6)	0.08 ± 0.01 (6)
Percent of Control		111.11	96.97
Eosinophils (10 <sup>3</sup> /uL)	SD 5	0.07 ± 0.01 (6)	0.14 ± 0.08 (6)
Percent of Control		78.10	154.29
Large Unstained Cells (10 <sup>3</sup> /uL)	SD 5	0.10 ± 0.01 (6)	0.10 ± 0.01 (6)
Percent of Control		147.62	135.71

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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  $P \leq 0.01$

One value each for Hemoglobin, Mean Cell Hemoglobin, and Mean Cell Hemoglobin Concentration in the 0 mg/kg group were excluded.

**\*\* END OF REPORT \*\***