

Study Number: C10333-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Sprague Dawley

C Number:

Study Gender:

PWG Approval Date

PA43: Hematology Summary

Test Compound: Bis(2-ethylhexyl) tetrabromophthalate

CAS Number: 26040-51-7

C10333-01

Male

See web page for date of PWG Approval

Date Report Requested: 04/08/2019

Time Report Requested: 10:40:55

Lab: Battelle

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	Phase Day	Treatment Groups (mg/kg)			
		0	0.07	0.71	7.06
Hematocrit (%)	SD 5	51.0 ± 1.0 (6)	47.6 ± 0.5 (6)	51.0 ± 2.3 (6)	51.1 ± 1.7 (6)
Percent of Control			93.2	99.9	100.1
Manual Hematocrit (%)	SD 5	49.7 ± 1.1 (6)	46.7 ± 0.6 (6)	50.0 ± 2.1 (6)	50.0 ± 1.4 (6)
Percent of Control			94.0	100.7	100.7
Hemoglobin (g/dL)	SD 5	15.3 ± 0.3 (6)	14.3 ± 0.2 (6)	15.0 ± 0.6 (6)	15.1 ± 0.5 (6)
Percent of Control			93.8	98.6	99.2
Erythrocytes (10 ⁶ /uL)	SD 5	7.85 ± 0.09 (6)	7.37 ± 0.12 (6)	7.88 ± 0.36 (6)	7.68 ± 0.26 (6)
Percent of Control			93.95	100.38	97.90
Reticulocytes (10 ³ /uL)	SD 5	430.3 ± 19.9 (6)	388.7 ± 16.5 (6)	417.0 ± 27.8 (6)	414.4 ± 16.7 (6)
Percent of Control			90.3	96.9	96.3
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (6)	0.00 ± 0.00 (6)	0.00 ± 0.00 (6)	0.00 ± 0.00 (6)
Mean Cell Volume (fL)	SD 5	65.0 ± 0.7 (6) *	64.5 ± 0.6 (6)	64.7 ± 0.3 (6)	66.5 ± 0.5 (6)
Percent of Control			99.2	99.4	102.2
Mean Cell Hemoglobin (pg)	SD 5	19.4 ± 0.2 (6)	19.4 ± 0.1 (6)	19.1 ± 0.2 (6)	19.7 ± 0.2 (6)
Percent of Control			99.8	98.4	101.5
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	29.9 ± 0.2 (6)	30.1 ± 0.1 (6)	29.5 ± 0.2 (6)	29.7 ± 0.1 (6)
Percent of Control			100.6	98.8	99.2
Platelets (10 ³ /uL)	SD 5	893 ± 62 (6)	1025 ± 73 (6)	918 ± 72 (6)	920 ± 88 (6)
Percent of Control			115	103	103
White Blood Cells (10 ³ /uL)	SD 5	13.33 ± 1.19 (6)	13.48 ± 0.82 (6)	14.02 ± 1.47 (6)	13.22 ± 0.62 (6)
Percent of Control			101.10	105.15	99.16
Neutrophils (10 ³ /uL)	SD 5	0.91 ± 0.09 (6)	0.94 ± 0.11 (6)	0.93 ± 0.07 (6)	0.96 ± 0.07 (6)

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	Phase Day	Treatment Groups (mg/kg)			
		0	0.07	0.71	7.06
Percent of Control			104.05	103.13	105.52
Lymphocytes (10 ³ /uL)	SD 5	11.48 ± 1.03 (6)	11.57 ± 0.71 (6)	12.25 ± 1.29 (6)	11.36 ± 0.60 (6)
Percent of Control			100.74	106.71	98.95
Monocytes (10 ³ /uL)	SD 5	0.66 ± 0.10 (6)	0.72 ± 0.11 (6)	0.58 ± 0.10 (6)	0.62 ± 0.11 (6)
Percent of Control			110.18	89.06	95.17
Basophils (10 ³ /uL)	SD 5	0.09 ± 0.02 (6)	0.09 ± 0.01 (6)	0.11 ± 0.01 (6)	0.08 ± 0.01 (6)
Percent of Control			92.86	119.64	85.71
Eosinophils (10 ³ /uL)	SD 5	0.09 ± 0.04 (6)	0.06 ± 0.01 (6)	0.05 ± 0.01 (6)	0.11 ± 0.06 (6)
Percent of Control			61.82	50.91	118.18
Large Unstained Cells (10 ³ /uL)	SD 5	0.10 ± 0.01 (6)	0.10 ± 0.01 (6)	0.09 ± 0.02 (6)	0.10 ± 0.01 (6)
Percent of Control			96.77	83.87	93.55

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	Phase Day	Treatment Groups (mg/kg)	
		70.6	706
Hematocrit (%)	SD 5	50.4 ± 2.2 (5)	49.9 ± 0.5 (6)
Percent of Control		98.8	97.8
Manual Hematocrit (%)	SD 5	49.4 ± 1.7 (5)	48.8 ± 0.7 (6)
Percent of Control		99.5	98.3
Hemoglobin (g/dL)	SD 5	15.0 ± 0.6 (5)	14.8 ± 0.1 (6)
Percent of Control		98.6	96.9
Erythrocytes (10 ⁶ /uL)	SD 5	7.78 ± 0.31 (5)	7.48 ± 0.10 (6)
Percent of Control		99.08	95.26
Reticulocytes (10 ³ /uL)	SD 5	424.4 ± 25.7 (5)	408.5 ± 14.0 (6)
Percent of Control		98.6	94.9
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (5)	0.00 ± 0.00 (6)
Mean Cell Volume (fL)	SD 5	64.9 ± 0.9 (5)	66.8 ± 0.4 (6)
Percent of Control		99.7	102.7
Mean Cell Hemoglobin (pg)	SD 5	19.4 ± 0.3 (5)	19.8 ± 0.2 (6)
Percent of Control		99.8	102.1
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	29.9 ± 0.3 (5)	29.7 ± 0.1 (6)
Percent of Control		100.1	99.3
Platelets (10 ³ /uL)	SD 5	895 ± 77 (5)	1012 ± 60 (6)
Percent of Control		100	113
White Blood Cells (10 ³ /uL)	SD 5	12.40 ± 0.80 (5)	15.35 ± 1.35 (6)
Percent of Control		93.03	115.10
Neutrophils (10 ³ /uL)	SD 5	0.97 ± 0.09 (5)	0.98 ± 0.10 (6)

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	Phase Day	Treatment Groups (mg/kg)	
		70.6	706
Percent of Control		106.74	108.10
Lymphocytes (10 ³ /uL)	SD 5	10.67 ± 0.77 (5)	13.45 ± 1.20 (6)
Percent of Control		92.95	117.16
Monocytes (10 ³ /uL)	SD 5	0.52 ± 0.12 (5)	0.63 ± 0.07 (6)
Percent of Control		79.39	96.69
Basophils (10 ³ /uL)	SD 5	0.09 ± 0.01 (5)	0.10 ± 0.02 (6)
Percent of Control		92.14	105.36
Eosinophils (10 ³ /uL)	SD 5	0.08 ± 0.02 (5)	0.06 ± 0.01 (6)
Percent of Control		87.27	60.00
Large Unstained Cells (10 ³ /uL)	SD 5	0.08 ± 0.00 (5)	0.13 ± 0.02 (6)
Percent of Control		81.29	120.97

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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 ****