

Study Number: C20292-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Sprague Dawley

C Number:

Study Gender:

PWG Approval Date

PA43: Hematology Summary

Test Compound: 1,2-Bis(2,4,6-tribromophenoxy)ethane

CAS Number: 37853-59-1

C20292-01

Male

See web page for date of PWG Approval

Date Report Requested: 04/08/2019

Time Report Requested: 10:32:04

Lab: Battelle

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	Phase Day	Treatment Groups (mg/kg)			
		0	0.07	0.69	6.88
Hematocrit (%)	SD 5	49.4 ± 1.7 (6) *	49.6 ± 0.4 (6)	49.1 ± 0.6 (6)	49.9 ± 2.3 (6)
Percent of Control			100.3	99.3	101.0
Manual Hematocrit (%)	SD 5	48.2 ± 1.1 (6)	48.2 ± 0.5 (6)	47.8 ± 0.7 (6)	48.7 ± 2.5 (6)
Percent of Control			100.0	99.3	101.0
Hemoglobin (g/dL)	SD 5	14.6 ± 0.4 (6) *	14.6 ± 0.1 (6)	14.4 ± 0.2 (6)	14.6 ± 0.6 (6)
Percent of Control			100.5	99.1	100.1
Erythrocytes (10 ⁶ /uL)	SD 5	7.37 ± 0.18 (6)	7.46 ± 0.09 (6)	7.33 ± 0.06 (6)	7.50 ± 0.32 (6)
Percent of Control			101.34	99.50	101.81
Reticulocytes (10 ³ /uL)	SD 5	420.0 ± 16.6 (6)	404.5 ± 26.6 (6)	402.3 ± 13.7 (6)	397.9 ± 25.1 (6)
Percent of Control			96.3	95.8	94.8
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.67 ± 0.33 (6)	0.17 ± 0.17 (6)	0.17 ± 0.17 (6)	0.67 ± 0.21 (6)
Percent of Control			25.00	25.00	100.00
Mean Cell Volume (fL)	SD 5	67.0 ± 0.7 (6)	66.5 ± 0.6 (6)	67.0 ± 0.6 (6)	66.6 ± 0.8 (6)
Percent of Control			99.2	99.9	99.3
Mean Cell Hemoglobin (pg)	SD 5	19.8 ± 0.1 (6)	19.6 ± 0.3 (6)	19.7 ± 0.2 (6)	19.5 ± 0.3 (6)
Percent of Control			99.2	99.7	98.5
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	29.5 ± 0.2 (6)	29.5 ± 0.2 (6)	29.4 ± 0.2 (6)	29.3 ± 0.2 (6)
Percent of Control			100.3	99.8	99.3
Platelets (10 ³ /uL)	SD 5	912 ± 56 (6)	881 ± 75 (6)	1031 ± 41 (6)	951 ± 55 (6)
Percent of Control			97	113	104
White Blood Cells (10 ³ /uL)	SD 5	15.03 ± 0.85 (6)	14.06 ± 1.06 (6)	13.93 ± 1.14 (6)	14.04 ± 1.12 (6)
Percent of Control			93.54	92.71	93.43

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	Phase Day	Treatment Groups (mg/kg)			
		0	0.07	0.69	6.88
Neutrophils (10 ³ /uL)	SD 5	1.30 ± 0.12 (6)	1.32 ± 0.17 (6)	1.24 ± 0.09 (6)	1.25 ± 0.11 (6)
Percent of Control			101.41	95.38	96.15
Lymphocytes (10 ³ /uL)	SD 5	12.77 ± 0.75 (6)	11.79 ± 0.91 (6)	11.74 ± 0.99 (6)	11.95 ± 0.97 (6)
Percent of Control			92.37	91.97	93.59
Monocytes (10 ³ /uL)	SD 5	0.67 ± 0.07 (6)	0.66 ± 0.06 (6)	0.68 ± 0.08 (6)	0.57 ± 0.10 (6)
Percent of Control			98.02	100.99	85.15
Basophils (10 ³ /uL)	SD 5	0.10 ± 0.01 (6)	0.11 ± 0.01 (6)	0.09 ± 0.01 (6)	0.09 ± 0.01 (6)
Percent of Control			110.53	96.49	94.74
Eosinophils (10 ³ /uL)	SD 5	0.07 ± 0.01 (6)	0.06 ± 0.00 (6)	0.05 ± 0.01 (6)	0.07 ± 0.02 (6)
Percent of Control			86.36	65.91	88.64
Large Unstained Cells (10 ³ /uL)	SD 5	0.12 ± 0.01 (6)	0.12 ± 0.01 (6)	0.13 ± 0.02 (6)	0.11 ± 0.01 (6)
Percent of Control			102.86	108.57	94.29

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	Phase Day	Treatment Groups (mg/kg)	
		68	680
Hematocrit (%)	SD 5	52.9 ± 2.1 (6)	51.6 ± 0.8 (5)
Percent of Control		107.0	104.5
Manual Hematocrit (%)	SD 5	50.3 ± 1.9 (6)	49.7 ± 1.3 (6)
Percent of Control		104.5	103.1
Hemoglobin (g/dL)	SD 5	15.4 ± 0.5 (6)	15.3 ± 0.2 (5)
Percent of Control		105.5	104.8
Erythrocytes (10 ⁶ /uL)	SD 5	7.98 ± 0.30 (6)	7.75 ± 0.14 (5)
Percent of Control		108.31	105.23
Reticulocytes (10 ³ /uL)	SD 5	416.2 ± 28.4 (6)	420.1 ± 13.0 (5)
Percent of Control		99.1	100.0
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (6)	0.83 ± 0.40 (6)
Percent of Control		0.00	125.00
Mean Cell Volume (fL)	SD 5	66.3 ± 0.7 (6)	66.7 ± 0.3 (5)
Percent of Control		98.9	99.5
Mean Cell Hemoglobin (pg)	SD 5	19.3 ± 0.2 (6)	19.7 ± 0.2 (5)
Percent of Control		97.5	99.6
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	29.1 ± 0.2 (6)	29.5 ± 0.2 (5)
Percent of Control		98.7	100.2
Platelets (10 ³ /uL)	SD 5	1027 ± 49 (6)	853 ± 79 (5)
Percent of Control		113	93
White Blood Cells (10 ³ /uL)	SD 5	13.73 ± 0.91 (6)	14.28 ± 0.72 (5)
Percent of Control		91.36	95.01

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	Phase Day	Treatment Groups (mg/kg)	
		68	680
Neutrophils (10 ³ /uL)	SD 5	1.29 ± 0.14 (6)	1.45 ± 0.15 (5)
Percent of Control		99.10	111.53
Lymphocytes (10 ³ /uL)	SD 5	11.54 ± 0.82 (6)	11.77 ± 0.70 (5)
Percent of Control		90.40	92.21
Monocytes (10 ³ /uL)	SD 5	0.64 ± 0.05 (6)	0.78 ± 0.15 (5)
Percent of Control		95.05	116.44
Basophils (10 ³ /uL)	SD 5	0.09 ± 0.01 (6)	0.09 ± 0.01 (5)
Percent of Control		96.49	98.95
Eosinophils (10 ³ /uL)	SD 5	0.06 ± 0.01 (6)	0.07 ± 0.01 (5)
Percent of Control		81.82	90.00
Large Unstained Cells (10 ³ /uL)	SD 5	0.11 ± 0.01 (6)	0.11 ± 0.02 (5)
Percent of Control		92.86	90.86

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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 ****