

Study Number: C10672-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Sprague Dawley

C Number:

Study Gender:

PWG Approval Date

PA43: Hematology Summary

Test Compound: Decabromodiphenyl Ether

CAS Number: 1163-19-5

C10672-01

Male

See web page for date of PWG Approval

Date Report Requested: 04/08/2019

Time Report Requested: 10:30:18

Lab: Battelle

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	Phase Day	Treatment Groups (mg/kg)			
		0	0.1	0.959	9.59
Hematocrit (%)	SD 5	50.8 ± 2.2 (6)	52.3 ± 5.8 (2)	50.4 ± 2.2 (6)	48.1 ± 1.6 (6)
Percent of Control			102.8	99.1	94.7
Manual Hematocrit (%)	SD 5	49.3 ± 2.0 (6)	48.7 ± 4.2 (3)	48.7 ± 2.1 (6)	47.0 ± 1.6 (6)
Percent of Control			98.6	98.6	95.3
Hemoglobin (g/dL)	SD 5	15.2 ± 0.6 (6)	16.0 ± 1.4 (2)	15.0 ± 0.6 (6)	14.5 ± 0.5 (6)
Percent of Control			105.2	98.8	95.6
Erythrocytes (10 ⁶ /uL)	SD 5	7.82 ± 0.34 (6)	8.30 ± 0.98 (2)	7.82 ± 0.28 (6)	7.37 ± 0.20 (6)
Percent of Control			106.12	99.96	94.25
Reticulocytes (10 ³ /uL)	SD 5	433.7 ± 32.6 (6)	449.3 ± 38.8 (2)	432.4 ± 20.7 (6)	437.3 ± 32.6 (6)
Percent of Control			103.6	99.7	100.8
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (6)	0.00 ± 0.00 (2)	0.00 ± 0.00 (6)	0.00 ± 0.00 (6)
Mean Cell Volume (fL)	SD 5	65.0 ± 0.6 (6)	63.1 ± 0.6 (2)	64.4 ± 0.7 (6)	65.3 ± 0.7 (6)
Percent of Control			97.0	99.0	100.4
Mean Cell Hemoglobin (pg)	SD 5	19.4 ± 0.3 (6)	19.3 ± 0.6 (2)	19.1 ± 0.2 (6)	19.7 ± 0.2 (6)
Percent of Control			99.1	98.5	101.1
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	29.9 ± 0.4 (6)	30.6 ± 0.7 (2)	29.7 ± 0.2 (6)	30.1 ± 0.1 (6)
Percent of Control			102.2	99.4	100.7
Platelets (10 ³ /uL)	SD 5	841 ± 117 (6)	735 ± 232 (2)	844 ± 118 (6)	812 ± 95 (6)
Percent of Control			87	100	96
White Blood Cells (10 ³ /uL)	SD 5	9.88 ± 1.03 (6)	8.34 ± 0.91 (2)	9.61 ± 1.09 (6)	9.54 ± 0.53 (6)
Percent of Control			84.40	97.28	96.53
Neutrophils (10 ³ /uL)	SD 5	0.81 ± 0.05 (6)	0.69 ± 0.22 (2)	0.84 ± 0.09 (6)	0.83 ± 0.06 (6)

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	Phase Day	Treatment Groups (mg/kg)			
		0	0.1	0.959	9.59
Percent of Control			84.57	103.91	102.47
Lymphocytes (10 ³ /uL)	SD 5	8.46 ± 0.99 (6)	7.10 ± 0.61 (2)	8.28 ± 0.97 (6)	8.07 ± 0.46 (6)
Percent of Control			83.88	97.91	95.43
Monocytes (10 ³ /uL)	SD 5	0.35 ± 0.04 (6)	0.34 ± 0.01 (2)	0.35 ± 0.04 (6)	0.42 ± 0.06 (6)
Percent of Control			96.17	99.52	120.10
Basophils (10 ³ /uL)	SD 5	0.06 ± 0.01 (6)	0.06 ± 0.02 (2)	0.06 ± 0.01 (6)	0.05 ± 0.01 (6)
Percent of Control			105.88	97.06	91.18
Eosinophils (10 ³ /uL)	SD 5	0.16 ± 0.06 (6)	0.12 ± 0.09 (2)	0.04 ± 0.01 (6)	0.10 ± 0.04 (6)
Percent of Control			72.63	26.32	62.11
Large Unstained Cells (10 ³ /uL)	SD 5	0.05 ± 0.01 (6)	0.05 ± 0.02 (2)	0.05 ± 0.01 (6)	0.07 ± 0.00 (6)
Percent of Control			96.43	100.00	139.29

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	Phase Day	Treatment Groups (mg/kg)	
		95.9	959
Hematocrit (%)	SD 5	50.1 ± 2.6 (5)	52.7 ± 1.7 (5)
Percent of Control		98.6	103.8
Manual Hematocrit (%)	SD 5	48.4 ± 2.6 (5)	51.0 ± 2.0 (5)
Percent of Control		98.1	103.4
Hemoglobin (g/dL)	SD 5	15.1 ± 0.7 (5)	15.8 ± 0.5 (5)
Percent of Control		99.8	104.4
Erythrocytes (10 ⁶ /uL)	SD 5	7.74 ± 0.38 (5)	8.25 ± 0.30 (5)
Percent of Control		98.90	105.48
Reticulocytes (10 ³ /uL)	SD 5	393.8 ± 26.1 (5)	422.1 ± 19.8 (5)
Percent of Control		90.8	97.3
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (5)	0.00 ± 0.00 (5)
Mean Cell Volume (fL)	SD 5	64.7 ± 0.4 (5)	64.0 ± 0.5 (5)
Percent of Control		99.5	98.4
Mean Cell Hemoglobin (pg)	SD 5	19.5 ± 0.1 (5)	19.2 ± 0.1 (5)
Percent of Control		100.4	98.9
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	30.2 ± 0.2 (5)	30.0 ± 0.1 (5)
Percent of Control		101.0	100.4
Platelets (10 ³ /uL)	SD 5	705 ± 163 (5)	965 ± 67 (5)
Percent of Control		84	115
White Blood Cells (10 ³ /uL)	SD 5	9.25 ± 0.88 (5)	10.41 ± 1.31 (5)
Percent of Control		93.61	105.33
Neutrophils (10 ³ /uL)	SD 5	0.74 ± 0.08 (5)	0.91 ± 0.10 (5)

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	Phase Day	Treatment Groups (mg/kg)	
		95.9	959
Percent of Control		91.36	112.10
Lymphocytes (10 ³ /uL)	SD 5	7.83 ± 0.88 (5)	8.87 ± 1.24 (5)
Percent of Control		92.55	104.82
Monocytes (10 ³ /uL)	SD 5	0.47 ± 0.08 (5)	0.32 ± 0.07 (5)
Percent of Control		134.93	93.01
Basophils (10 ³ /uL)	SD 5	0.05 ± 0.01 (5)	0.07 ± 0.02 (5)
Percent of Control		88.24	127.06
Eosinophils (10 ³ /uL)	SD 5	0.10 ± 0.03 (5)	0.18 ± 0.07 (5)
Percent of Control		64.42	112.42
Large Unstained Cells (10 ³ /uL)	SD 5	0.06 ± 0.01 (5)	0.05 ± 0.01 (5)
Percent of Control		124.29	115.71

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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 ****