

Study Number: C15003-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Sprague Dawley

C Number:

Study Gender:

PWG Approval Date

PA43: Hematology Summary

Test Compound: Hexachlorocyclopentadienyl-dibromocyclooctane

CAS Number: 51936-55-1

C15003-01

Male

See web page for date of PWG Approval

Date Report Requested: 04/08/2019

Time Report Requested: 11:22:16

Lab: Battelle

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Male: Core Males

	Phase Day	Treatment Groups (mg/kg)			
		0	0.05	0.54	5.41
Hematocrit (%)	SD 5	50.6 ± 2.5 (5)	49.4 ± 1.7 (5)	49.9 ± 1.2 (6)	50.8 ± 2.1 (6)
Percent of Control			97.5	98.6	100.3
Manual Hematocrit (%)	SD 5	48.8 ± 2.4 (5)	48.4 ± 2.0 (5)	48.2 ± 1.5 (6)	49.5 ± 1.8 (6)
Percent of Control			99.2	98.7	101.4
Hemoglobin (g/dL)	SD 5	14.8 ± 0.8 (5)	14.7 ± 0.5 (5)	14.7 ± 0.4 (6)	15.0 ± 0.5 (6)
Percent of Control			99.1	99.4	101.0
Erythrocytes (10 ⁶ /uL)	SD 5	7.75 ± 0.42 (5)	7.40 ± 0.23 (5)	7.52 ± 0.16 (6)	7.67 ± 0.28 (6)
Percent of Control			95.51	97.08	98.97
Reticulocytes (10 ³ /uL)	SD 5	394.9 ± 6.2 (5)	419.3 ± 25.6 (5)	419.0 ± 18.9 (6)	426.3 ± 23.6 (6)
Percent of Control			106.2	106.1	107.9
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.20 ± 0.20 (5)	0.00 ± 0.00 (5)	0.17 ± 0.17 (6)	0.17 ± 0.17 (6)
Percent of Control			0.00	83.33	83.33
Mean Cell Volume (fL)	SD 5	65.3 ± 0.5 (5)	66.7 ± 0.6 (5)	66.3 ± 0.7 (6)	66.2 ± 0.5 (6)
Percent of Control			102.1	101.5	101.3
Mean Cell Hemoglobin (pg)	SD 5	19.1 ± 0.2 (5)	19.8 ± 0.1 (5)	19.5 ± 0.2 (6)	19.5 ± 0.2 (6)
Percent of Control			103.8	102.3	102.2
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	29.3 ± 0.2 (5)	29.7 ± 0.1 (5)	29.5 ± 0.2 (6)	29.5 ± 0.2 (6)
Percent of Control			101.6	100.7	100.9
Platelets (10 ³ /uL)	SD 5	928 ± 57 (5)	990 ± 63 (5)	1013 ± 38 (6)	973 ± 48 (6)
Percent of Control			107	109	105
White Blood Cells (10 ³ /uL)	SD 5	13.37 ± 0.88 (5)	13.91 ± 1.43 (5)	11.47 ± 0.22 (6)	11.90 ± 0.94 (6)
Percent of Control			103.99	85.76	88.97

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	Phase Day	Treatment Groups (mg/kg)			
		0	0.05	0.54	5.41
Neutrophils (10 ³ /uL)	SD 5	1.14 ± 0.21 (5)	1.11 ± 0.09 (5)	1.02 ± 0.11 (6)	0.95 ± 0.17 (6)
Percent of Control			98.06	89.64	83.33
Lymphocytes (10 ³ /uL)	SD 5	11.56 ± 0.80 (5)	11.99 ± 1.38 (5)	9.75 ± 0.28 (6)	10.27 ± 0.92 (6)
Percent of Control			103.69	84.31	88.83
Monocytes (10 ³ /uL)	SD 5	0.46 ± 0.05 (5)	0.54 ± 0.02 (5)	0.51 ± 0.06 (6)	0.45 ± 0.04 (6)
Percent of Control			117.47	112.08	98.25
Basophils (10 ³ /uL)	SD 5	0.08 ± 0.01 (5)	0.10 ± 0.02 (5)	0.07 ± 0.01 (6)	0.07 ± 0.01 (6)
Percent of Control			117.07	81.30	87.40
Eosinophils (10 ³ /uL)	SD 5	0.05 ± 0.00 (5)	0.05 ± 0.01 (5)	0.04 ± 0.00 (6)	0.08 ± 0.03 (6)
Percent of Control			92.31	73.72	150.64
Large Unstained Cells (10 ³ /uL)	SD 5	0.09 ± 0.01 (5)	0.12 ± 0.02 (5)	0.09 ± 0.01 (6)	0.09 ± 0.02 (6)
Percent of Control			138.64	96.59	102.27

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	Phase Day	Treatment Groups (mg/kg)	
		54.1	541
Hematocrit (%)	SD 5	50.4 ± 2.3 (6)	48.4 ± 1.2 (6)
Percent of Control		99.6	95.6
Manual Hematocrit (%)	SD 5	49.0 ± 2.1 (6)	47.3 ± 1.4 (6)
Percent of Control		100.4	97.0
Hemoglobin (g/dL)	SD 5	15.0 ± 0.6 (6)	14.3 ± 0.4 (6)
Percent of Control		101.0	96.8
Erythrocytes (10 ⁶ /uL)	SD 5	7.65 ± 0.30 (6)	7.30 ± 0.20 (6)
Percent of Control		98.69	94.15
Reticulocytes (10 ³ /uL)	SD 5	426.7 ± 18.5 (6)	382.3 ± 16.2 (6)
Percent of Control		108.0	96.8
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (6)	0.50 ± 0.22 (6)
Percent of Control		0.00	250.00
Mean Cell Volume (fL)	SD 5	65.9 ± 0.8 (6)	66.3 ± 0.4 (6)
Percent of Control		100.8	101.4
Mean Cell Hemoglobin (pg)	SD 5	19.6 ± 0.2 (6)	19.6 ± 0.1 (6)
Percent of Control		102.4	102.7
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	29.7 ± 0.2 (6)	29.6 ± 0.3 (6)
Percent of Control		101.3	101.2
Platelets (10 ³ /uL)	SD 5	866 ± 99 (6)	979 ± 74 (6)
Percent of Control		93	105
White Blood Cells (10 ³ /uL)	SD 5	14.50 ± 0.52 (6)	12.03 ± 0.57 (6)
Percent of Control		108.41	89.95

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	Phase Day	Treatment Groups (mg/kg)	
		54.1	541
Neutrophils (10 ³ /uL)	SD 5	1.11 ± 0.11 (6)	0.98 ± 0.06 (6)
Percent of Control		97.56	85.97
Lymphocytes (10 ³ /uL)	SD 5	12.45 ± 0.41 (6)	10.21 ± 0.56 (6)
Percent of Control		107.71	88.29
Monocytes (10 ³ /uL)	SD 5	0.64 ± 0.05 (6)	0.57 ± 0.10 (6)
Percent of Control		139.74	125.18
Basophils (10 ³ /uL)	SD 5	0.09 ± 0.01 (6)	0.08 ± 0.01 (6)
Percent of Control		109.76	91.46
Eosinophils (10 ³ /uL)	SD 5	0.11 ± 0.04 (6)	0.10 ± 0.04 (6)
Percent of Control		201.92	192.31
Large Unstained Cells (10 ³ /uL)	SD 5	0.11 ± 0.01 (6)	0.09 ± 0.01 (6)
Percent of Control		123.11	106.06

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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 ****