

**Study Number:** C15003-01

**Test Type:** TOX

**Route:** Oral Gavage

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

**C Number:**

**Study Gender:**

**PWG Approval Date**

**PA41: Clinical Chemistry 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:** 11:22:14

**Lab:** Battelle

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Male: Core Males

	Phase Day	Treatment Groups (mg/kg)				
		0	0.05	0.54	5.41	54.1
Urea Nitrogen (mg/dL)	SD 5	14.0 ± 0.4 (6)	14.3 ± 0.7 (6)	14.0 ± 0.4 (6)	14.2 ± 1.3 (6)	13.0 ± 0.7 (6)
Percent of Control			102.4	100.0	101.2	92.9
Creatinine (mg/dL)	SD 5	0.38 ± 0.02 (6)	0.38 ± 0.02 (6)	0.33 ± 0.02 (6)	0.38 ± 0.03 (6)	0.35 ± 0.02 (6)
Percent of Control			100.00	86.96	100.00	91.30
Glucose (mg/dL)	SD 5	259.0 ± 9.6 (6)	233.8 ± 4.2 (6)	246.3 ± 10.6 (6)	240.0 ± 16.5 (6)	244.3 ± 16.9 (6)
Percent of Control			90.3	95.1	92.7	94.3
Sodium (mmol/L)	SD 5	146.5 ± 0.5 (6)	146.2 ± 0.5 (6)	146.7 ± 0.2 (6)	146.7 ± 0.3 (6)	146.2 ± 0.2 (6)
Percent of Control			99.8	100.1	100.1	99.8
Potassium (mmol/L)	SD 5	7.5 ± 0.4 (6)	7.8 ± 0.3 (6)	7.2 ± 0.3 (6)	7.4 ± 0.3 (6)	7.4 ± 0.2 (6)
Percent of Control			103.8	96.0	97.6	98.5
Chloride (mmol/L)	SD 5	101.7 ± 0.4 (6)	101.8 ± 0.4 (6)	101.5 ± 0.5 (6)	101.0 ± 0.4 (6)	100.7 ± 0.5 (6)
Percent of Control			100.2	99.8	99.3	99.0
Total Protein (g/dL)	SD 5	5.90 ± 0.20 (6)	5.87 ± 0.10 (6)	5.92 ± 0.11 (6)	5.78 ± 0.07 (6)	5.80 ± 0.15 (6)
Percent of Control			99.44	100.28	98.02	98.31
Globulin (g/dL)	SD 5	1.58 ± 0.12 (6)	1.63 ± 0.07 (6)	1.63 ± 0.03 (6)	1.60 ± 0.06 (6)	1.72 ± 0.09 (6)
Percent of Control			103.16	103.16	101.05	108.42
A/G Ratio	SD 5	2.79 ± 0.17 (6)	2.61 ± 0.12 (6)	2.62 ± 0.03 (6)	2.63 ± 0.10 (6)	2.40 ± 0.11 (6)
Percent of Control			93.76	94.13	94.42	86.24
Albumin (g/dL)	SD 5	4.32 ± 0.08 (6)	4.23 ± 0.06 (6)	4.28 ± 0.08 (6)	4.18 ± 0.04 (6)	4.08 ± 0.08 (6)
Percent of Control			98.07	99.23	96.91	94.59
Cholesterol (mg/dL)	SD 5	138.5 ± 7.7 (6)	135.0 ± 3.5 (6)	133.5 ± 6.4 (6)	140.5 ± 8.2 (6)	147.5 ± 9.4 (6)
Percent of Control			97.5	96.4	101.4	106.5

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	Phase Day	Treatment Groups (mg/kg)				
		0	0.05	0.54	5.41	54.1
Triglyceride (mg/dL)	SD 5	88.2 ± 5.8 (6)	66.7 ± 9.2 (6)	77.7 ± 7.5 (6)	79.0 ± 7.6 (6)	109.3 ± 18.2 (6)
Percent of Control			75.6	88.1	89.6	124.0
Alanine Aminotransferase (IU/L)	SD 5	56.0 ± 3.3 (6)	56.0 ± 1.8 (6)	57.3 ± 4.9 (6)	58.8 ± 5.4 (6)	65.8 ± 1.6 (6)
Percent of Control			100.0	102.4	105.1	117.6
Creatine Kinase (IU/L)	SD 5	145.3 ± 9.6 (6) **	162.0 ± 7.3 (6)	186.5 ± 25.9 (6)	174.0 ± 11.1 (6)	186.5 ± 9.2 (6) **
Percent of Control			111.5	128.3	119.7	128.3
Sorbitol Dehydrogenase (IU/L)	SD 5	4.6 ± 0.8 (5)	4.6 ± 1.0 (6)	4.5 ± 0.5 (5)	6.1 ± 0.7 (6)	5.6 ± 1.1 (5)
Percent of Control			98.8	97.8	131.7	122.1
Bile salt/acids (umol/L)	SD 5	36.7 ± 5.4 (6)	43.7 ± 3.9 (6)	59.2 ± 9.1 (6)	56.8 ± 11.7 (6)	48.8 ± 4.5 (6)
Percent of Control			119.1	161.4	155.0	133.2

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	Phase Day	Treatment Groups 541
Urea Nitrogen (mg/dL)	SD 5	14.3 ± 0.4 (6)
Percent of Control		102.4
Creatinine (mg/dL)	SD 5	0.40 ± 0.03 (6)
Percent of Control		104.35
Glucose (mg/dL)	SD 5	261.8 ± 12.4 (6)
Percent of Control		101.1
Sodium (mmol/L)	SD 5	146.5 ± 0.7 (6)
Percent of Control		100.0
Potassium (mmol/L)	SD 5	7.7 ± 0.2 (6)
Percent of Control		102.2
Chloride (mmol/L)	SD 5	102.5 ± 0.8 (6)
Percent of Control		100.8
Total Protein (g/dL)	SD 5	5.92 ± 0.17 (6)
Percent of Control		100.28
Globulin (g/dL)	SD 5	1.68 ± 0.09 (6)
Percent of Control		106.32
A/G Ratio	SD 5	2.54 ± 0.09 (6)
Percent of Control		90.94
Albumin (g/dL)	SD 5	4.23 ± 0.09 (6)
Percent of Control		98.07
Cholesterol (mg/dL)	SD 5	135.7 ± 7.3 (6)
Percent of Control		98.0

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	<b>Phase Day</b>	<b>Treatment Groups</b>
		<b>541</b>
Triglyceride (mg/dL)	SD 5	102.2 ± 8.9 (6)
Percent of Control		115.9
Alanine Aminotransferase (IU/L)	SD 5	57.5 ± 2.7 (6)
Percent of Control		102.7
Creatine Kinase (IU/L)	SD 5	174.3 ± 8.3 (6) *
Percent of Control		120.0
Sorbitol Dehydrogenase (IU/L)	SD 5	4.6 ± 1.0 (5)
Percent of Control		100.4
Bile salt/acids (umol/L)	SD 5	27.8 ± 3.2 (6)
Percent of Control		75.9

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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 for Sorbitol Dehydrogenase in the 0 mg/kg group was excluded. One value for Sorbitol Dehydrogenase in the 0.54 mg/kg group was excluded. One value for Sorbitol Dehydrogenase in the 54.1 mg/kg group was excluded. One value for Sorbitol Dehydrogenase in the 541 mg/kg group was excluded.

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