

**Study Number:** C20292-01

**Test Type:** TOX

**Route:** Oral Gavage

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

**C Number:**

**Study Gender:**

**PWG Approval Date**

**PA41: Clinical Chemistry Summary**

**Test Compound:** 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:** 10:09:21

**Lab:** Battelle

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Male: Core Males

	Phase Day	Treatment Groups (mg/kg)				
		0	0.07	0.69	6.88	68
Urea Nitrogen (mg/dL)	SD 5	13.3 ± 0.7 (6)	13.7 ± 0.7 (6)	13.8 ± 0.5 (6)	14.2 ± 0.4 (6)	13.2 ± 0.5 (6)
Percent of Control			102.5	103.8	106.3	98.8
Creatinine (mg/dL)	SD 5	0.35 ± 0.02 (6) *	0.35 ± 0.02 (6)	0.37 ± 0.02 (6)	0.38 ± 0.02 (6)	0.38 ± 0.02 (6)
Percent of Control			100.00	104.76	109.52	109.52
Glucose (mg/dL)	SD 5	252.3 ± 17.6 (6)	230.5 ± 13.2 (6)	247.7 ± 10.7 (6)	250.5 ± 7.5 (6)	241.7 ± 9.9 (6)
Percent of Control			91.3	98.2	99.3	95.8
Sodium (mmol/L)	SD 5	147.7 ± 0.6 (6)	148.0 ± 0.6 (6)	148.0 ± 0.7 (6)	147.3 ± 0.5 (6)	147.7 ± 0.8 (6)
Percent of Control			100.2	100.2	99.8	100.0
Potassium (mmol/L)	SD 5	7.9 ± 0.4 (6)	7.4 ± 0.3 (6)	7.6 ± 0.3 (6)	7.7 ± 0.3 (6)	7.0 ± 0.3 (6)
Percent of Control			93.8	96.2	98.5	89.2
Chloride (mmol/L)	SD 5	102.3 ± 0.4 (6)	102.0 ± 0.7 (6)	102.2 ± 0.6 (6)	102.2 ± 0.7 (6)	101.2 ± 0.5 (6)
Percent of Control			99.7	99.8	99.8	98.9
Total Protein (g/dL)	SD 5	5.80 ± 0.11 (6) *	5.83 ± 0.09 (6)	5.90 ± 0.06 (6)	5.87 ± 0.11 (6)	6.05 ± 0.14 (6)
Percent of Control			100.57	101.72	101.15	104.31
Globulin (g/dL)	SD 5	1.58 ± 0.05 (6)	1.62 ± 0.05 (6)	1.55 ± 0.04 (6)	1.53 ± 0.08 (6)	1.65 ± 0.11 (6)
Percent of Control			102.11	97.89	96.84	104.21
A/G Ratio	SD 5	2.67 ± 0.07 (6)	2.62 ± 0.11 (6)	2.82 ± 0.08 (6)	2.86 ± 0.15 (6)	2.71 ± 0.14 (6)
Percent of Control			98.15	105.45	107.14	101.49
Albumin (g/dL)	SD 5	4.22 ± 0.07 (6) **	4.22 ± 0.08 (6)	4.35 ± 0.04 (6)	4.33 ± 0.07 (6)	4.40 ± 0.04 (6)
Percent of Control			100.00	103.16	102.77	104.35
Cholesterol (mg/dL)	SD 5	137.0 ± 4.2 (6)	128.8 ± 4.0 (6)	133.3 ± 3.2 (6)	138.3 ± 5.2 (6)	142.5 ± 6.8 (6)
Percent of Control			94.0	97.3	101.0	104.0

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	Phase Day	Treatment Groups (mg/kg)				
		0	0.07	0.69	6.88	68
Triglyceride (mg/dL)	SD 5	73.5 ± 6.4 (6)	83.0 ± 9.7 (6)	77.8 ± 8.8 (6)	74.0 ± 5.4 (6)	81.2 ± 11.4 (6)
Percent of Control			112.9	105.9	100.7	110.4
Alanine Aminotransferase (IU/L)	SD 5	55.0 ± 1.4 (6)	54.3 ± 2.2 (6)	57.0 ± 1.5 (6)	52.3 ± 2.4 (6)	56.3 ± 2.7 (6)
Percent of Control			98.8	103.6	95.2	102.4
Creatine Kinase (IU/L)	SD 5	180.2 ± 9.2 (6)	181.5 ± 18.9 (6)	190.8 ± 12.6 (6)	181.5 ± 13.7 (6)	179.2 ± 11.4 (6)
Percent of Control			100.7	105.9	100.7	99.4
Sorbitol Dehydrogenase (IU/L)	SD 5	6.1 ± 0.9 (5)	4.8 ± 1.0 (6)	5.5 ± 0.9 (5)	4.8 ± 0.8 (6)	4.2 ± 0.8 (6)
Percent of Control			78.4	89.5	78.4	68.9
Bile salt/acids (umol/L)	SD 5	68.5 ± 3.5 (6)	79.0 ± 7.1 (6)	50.8 ± 3.6 (6)	61.0 ± 7.3 (6)	68.8 ± 4.8 (6)
Percent of Control			115.3	74.2	89.1	100.5

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	Phase Day	Treatment Groups 680
Urea Nitrogen (mg/dL)	SD 5	14.5 ± 0.8 (6)
Percent of Control		108.8
Creatinine (mg/dL)	SD 5	0.40 ± 0.00 (6)
Percent of Control		114.29
Glucose (mg/dL)	SD 5	255.2 ± 8.1 (6)
Percent of Control		101.1
Sodium (mmol/L)	SD 5	147.0 ± 0.4 (6)
Percent of Control		99.5
Potassium (mmol/L)	SD 5	7.8 ± 0.2 (6)
Percent of Control		99.6
Chloride (mmol/L)	SD 5	101.5 ± 0.6 (6)
Percent of Control		99.2
Total Protein (g/dL)	SD 5	6.08 ± 0.05 (6)
Percent of Control		104.89
Globulin (g/dL)	SD 5	1.65 ± 0.07 (6)
Percent of Control		104.21
A/G Ratio	SD 5	2.71 ± 0.12 (6)
Percent of Control		101.50
Albumin (g/dL)	SD 5	4.43 ± 0.04 (6) *
Percent of Control		105.14
Cholesterol (mg/dL)	SD 5	141.5 ± 4.3 (6)
Percent of Control		103.3

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	<b>Phase Day</b>	<b>Treatment Groups</b>
		<b>680</b>
Triglyceride (mg/dL)	SD 5	78.7 ± 5.5 (6)
Percent of Control		107.0
Alanine Aminotransferase (IU/L)	SD 5	56.5 ± 2.8 (6)
Percent of Control		102.7
Creatine Kinase (IU/L)	SD 5	173.0 ± 5.4 (6)
Percent of Control		96.0
Sorbitol Dehydrogenase (IU/L)	SD 5	5.0 ± 0.8 (6)
Percent of Control		82.5
Bile salt/acids (umol/L)	SD 5	53.5 ± 7.1 (6)
Percent of Control		78.1

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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 0.69 group was excluded.

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