

Study Number: C10333-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Sprague Dawley

C Number:

Study Gender:

PWG Approval Date

PA41: Clinical Chemistry Summary

Test Compound: Bis(2-ethylhexyl) tetrabromophthalate

CAS Number: 26040-51-7

C10333-01

Male

See web page for date of PWG Approval

Date Report Requested: 04/08/2019

Time Report Requested: 10:40:53

Lab: Battelle

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	Phase Day	Treatment Groups (mg/kg)				
		0	0.07	0.71	7.06	70.6
Urea Nitrogen (mg/dL)	SD 5	14.0 ± 0.5 (6)	13.0 ± 0.4 (6)	13.3 ± 1.0 (6)	14.2 ± 0.5 (6)	14.0 ± 0.5 (6)
Percent of Control			92.9	95.2	101.2	100.0
Creatinine (mg/dL)	SD 5	0.38 ± 0.02 (5)	0.35 ± 0.02 (6)	0.33 ± 0.02 (6)	0.38 ± 0.02 (6)	0.38 ± 0.02 (6)
Percent of Control			92.11	87.72	100.88	100.88
Glucose (mg/dL)	SD 5	226.3 ± 9.2 (6)	224.5 ± 11.8 (6)	223.2 ± 9.7 (6)	223.0 ± 14.3 (6)	217.5 ± 13.6 (6)
Percent of Control			99.2	98.6	98.5	96.1
Sodium (mmol/L)	SD 5	147.2 ± 0.3 (6)	147.5 ± 0.6 (6)	147.5 ± 0.3 (6)	146.7 ± 0.2 (6)	147.7 ± 0.4 (6)
Percent of Control			100.2	100.2	99.7	100.3
Potassium (mmol/L)	SD 5	7.0 ± 0.2 (6)	6.8 ± 0.3 (6)	7.3 ± 0.2 (6)	7.3 ± 0.3 (6)	6.8 ± 0.2 (6)
Percent of Control			96.7	105.0	104.5	97.1
Chloride (mmol/L)	SD 5	101.5 ± 0.5 (6)	100.8 ± 0.7 (6)	100.8 ± 0.6 (6)	100.7 ± 0.6 (6)	101.3 ± 0.3 (6)
Percent of Control			99.3	99.3	99.2	99.8
Total Protein (g/dL)	SD 5	6.03 ± 0.16 (6)	5.73 ± 0.11 (6)	6.03 ± 0.19 (6)	6.07 ± 0.12 (6)	6.18 ± 0.15 (6)
Percent of Control			95.03	100.00	100.55	102.49
Globulin (g/dL)	SD 5	1.68 ± 0.13 (6)	1.45 ± 0.04 (6)	1.58 ± 0.08 (6)	1.65 ± 0.07 (6)	1.77 ± 0.07 (6)
Percent of Control			86.14	94.06	98.02	104.95
A/G Ratio	SD 5	2.66 ± 0.19 (6) *	2.96 ± 0.08 (6)	2.83 ± 0.07 (6)	2.70 ± 0.10 (6)	2.51 ± 0.05 (6)
Percent of Control			111.55	106.49	101.50	94.49
Albumin (g/dL)	SD 5	4.35 ± 0.07 (6)	4.28 ± 0.09 (6)	4.45 ± 0.11 (6)	4.42 ± 0.07 (6)	4.42 ± 0.09 (6)
Percent of Control			98.47	102.30	101.53	101.53
Cholesterol (mg/dL)	SD 5	141.3 ± 6.1 (6)	126.2 ± 3.0 (6)	133.8 ± 7.4 (6)	146.2 ± 8.5 (6)	138.2 ± 4.7 (6)
Percent of Control			89.3	94.7	103.4	97.8

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	Phase Day	Treatment Groups (mg/kg)				
		0	0.07	0.71	7.06	70.6
Triglyceride (mg/dL)	SD 5	104.2 ± 16.3 (6)	78.2 ± 7.6 (6)	82.0 ± 4.4 (6)	97.2 ± 5.6 (6)	83.5 ± 4.9 (6)
Percent of Control			75.0	78.7	93.3	80.2
Alanine Aminotransferase (IU/L)	SD 5	60.5 ± 3.3 (6)	58.8 ± 3.1 (6)	55.2 ± 3.8 (6)	55.8 ± 1.7 (6)	58.8 ± 4.1 (6)
Percent of Control			97.2	91.2	92.3	97.2
Creatine Kinase (IU/L)	SD 5	183.2 ± 10.8 (6)	163.8 ± 5.7 (6)	166.7 ± 13.5 (6)	173.3 ± 13.3 (6)	180.5 ± 10.8 (6)
Percent of Control			89.4	91.0	94.6	98.5
Sorbitol Dehydrogenase (IU/L)	SD 5	8.1 ± 0.7 (6)	8.0 ± 0.7 (6)	7.9 ± 0.8 (6)	7.2 ± 0.7 (6)	9.9 ± 1.5 (6)
Percent of Control			98.0	96.5	88.9	122.1
Bile salt/acids (umol/L)	SD 5	34.3 ± 4.4 (6)	60.2 ± 11.8 (6)	57.7 ± 9.3 (6)	44.5 ± 5.9 (6)	46.8 ± 6.4 (6)
Percent of Control			175.2	168.0	129.6	136.4

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	Phase Day	Treatment Groups 706
Urea Nitrogen (mg/dL)	SD 5	13.8 ± 0.6 (6)
Percent of Control		98.8
Creatinine (mg/dL)	SD 5	0.35 ± 0.02 (6)
Percent of Control		92.11
Glucose (mg/dL)	SD 5	230.3 ± 8.9 (6)
Percent of Control		101.8
Sodium (mmol/L)	SD 5	147.2 ± 0.7 (6)
Percent of Control		100.0
Potassium (mmol/L)	SD 5	7.2 ± 0.2 (6)
Percent of Control		102.6
Chloride (mmol/L)	SD 5	102.0 ± 0.4 (6)
Percent of Control		100.5
Total Protein (g/dL)	SD 5	5.98 ± 0.09 (6)
Percent of Control		99.17
Globulin (g/dL)	SD 5	1.68 ± 0.07 (6)
Percent of Control		100.00
A/G Ratio	SD 5	2.58 ± 0.13 (6)
Percent of Control		97.12
Albumin (g/dL)	SD 5	4.30 ± 0.07 (6)
Percent of Control		98.85
Cholesterol (mg/dL)	SD 5	127.4 ± 6.8 (5)
Percent of Control		90.1

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	Phase Day	Treatment Groups
		706
Triglyceride (mg/dL)	SD 5	93.7 ± 23.1 (6)
Percent of Control		89.9
Alanine Aminotransferase (IU/L)	SD 5	56.7 ± 3.1 (6)
Percent of Control		93.7
Creatine Kinase (IU/L)	SD 5	163.3 ± 10.3 (6)
Percent of Control		89.2
Sorbitol Dehydrogenase (IU/L)	SD 5	7.5 ± 1.0 (6)
Percent of Control		92.2
Bile salt/acids (umol/L)	SD 5	53.8 ± 7.0 (6)
Percent of Control		156.8

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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 $P \leq 0.01$

One value for Creatinine in the 0 mg/kg group and one value for Cholesterol in the 706 mg/kg group were excluded.

**** END OF REPORT ****