

Study Number: C13063-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Sprague Dawley

C Number:

Study Gender:

PWG Approval Date

PA41: Clinical Chemistry Summary

Test Compound: 2-ethylhexyl-2,3,4,5-tetrabromobenzoate

CAS Number: 183658-27-7

C13063-01

Male

See web page for date of PWG Approval

Date Report Requested: 04/08/2019

Time Report Requested: 10:58:22

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	Phase Day	Treatment Groups (mg/kg)				
		0	0.05	0.55	5.5	55
Urea Nitrogen (mg/dL)	SD 5	12.4 ± 0.7 (5)	13.7 ± 0.4 (6)	13.0 ± 0.7 (5)	13.6 ± 1.5 (5)	13.8 ± 0.6 (5)
Percent of Control			110.2	104.8	109.7	111.3
Creatinine (mg/dL)	SD 5	0.36 ± 0.02 (5)	0.37 ± 0.02 (6)	0.37 ± 0.02 (6)	0.34 ± 0.02 (5)	0.35 ± 0.02 (6)
Percent of Control			101.85	101.85	94.44	97.22
Glucose (mg/dL)	SD 5	242.5 ± 9.4 (4)	263.5 ± 14.9 (6)	263.4 ± 18.9 (5)	244.6 ± 13.3 (5)	232.6 ± 9.2 (5)
Percent of Control			108.7	108.6	100.9	95.9
Sodium (mmol/L)	SD 5	148.6 ± 0.2 (5) *	148.0 ± 0.4 (6)	147.8 ± 0.3 (6)	147.5 ± 0.4 (6)	147.8 ± 0.5 (6)
Percent of Control			99.6	99.5	99.3	99.5
Potassium (mmol/L)	SD 5	7.8 ± 0.6 (5)	7.4 ± 0.2 (6)	7.5 ± 0.2 (6)	7.4 ± 0.3 (6)	7.0 ± 0.2 (6)
Percent of Control			94.0	95.5	94.2	88.9
Chloride (mmol/L)	SD 5	101.0 ± 0.7 (5) *	101.0 ± 0.4 (6)	100.8 ± 0.5 (6)	100.3 ± 0.5 (6)	102.0 ± 0.6 (6)
Percent of Control			100.0	99.8	99.3	101.0
Total Protein (g/dL)	SD 5	6.08 ± 0.21 (5)	5.67 ± 0.10 (6)	6.08 ± 0.18 (5)	5.96 ± 0.24 (5)	5.66 ± 0.09 (5)
Percent of Control			93.20	100.00	98.03	93.09
Globulin (g/dL)	SD 5	1.62 ± 0.15 (5)	1.47 ± 0.07 (6)	1.62 ± 0.12 (5)	1.66 ± 0.16 (5)	1.42 ± 0.05 (5)
Percent of Control			90.53	100.00	102.47	87.65
A/G Ratio	SD 5	2.83 ± 0.20 (5)	2.89 ± 0.11 (6)	2.81 ± 0.20 (5)	2.67 ± 0.21 (5)	3.00 ± 0.08 (5)
Percent of Control			102.23	99.52	94.59	106.06
Albumin (g/dL)	SD 5	4.46 ± 0.07 (5)	4.20 ± 0.04 (6) *	4.40 ± 0.08 (6)	4.30 ± 0.08 (5)	4.28 ± 0.06 (6)
Percent of Control			94.17	98.65	96.41	96.04
Cholesterol (mg/dL)	SD 5	150.8 ± 14.8 (4)	130.7 ± 2.4 (6)	141.3 ± 10.6 (6)	146.0 ± 12.3 (5)	132.8 ± 3.1 (6)
Percent of Control			86.7	93.8	96.8	88.1

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	Phase Day	Treatment Groups (mg/kg)				
		0	0.05	0.55	5.5	55
Triglyceride (mg/dL)	SD 5	78.4 ± 10.9 (5)	78.7 ± 11.4 (6)	79.6 ± 13.7 (5)	87.6 ± 17.2 (5)	83.8 ± 6.9 (6)
Percent of Control			100.3	101.5	111.7	106.9
Alanine Aminotransferase (IU/L)	SD 5	56.4 ± 3.3 (5)	58.0 ± 2.1 (6)	63.3 ± 5.1 (6)	58.8 ± 3.5 (5)	55.3 ± 1.4 (6)
Percent of Control			102.8	112.3	104.3	98.1
Creatine Kinase (IU/L)	SD 5	194.2 ± 14.7 (5)	185.2 ± 5.6 (6)	233.4 ± 33.5 (5)	224.5 ± 25.9 (6)	185.0 ± 10.9 (6)
Percent of Control			95.3	120.2	115.6	95.3
Sorbitol Dehydrogenase (IU/L)	SD 5	5.8 ± 1.1 (5)	4.8 ± 1.1 (6)	7.3 ± 2.8 (5)	6.5 ± 1.0 (6)	8.0 ± 2.0 (5)
Percent of Control			83.9	126.7	112.3	139.2
Bile salt/acids (umol/L)	SD 5	52.8 ± 10.4 (4) **	84.0 ± 9.1 (6)	70.4 ± 4.7 (5)	44.8 ± 7.5 (6)	37.2 ± 4.9 (5)
Percent of Control			159.2	133.5	85.0	70.5

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	Phase Day	Treatment Groups 550
Urea Nitrogen (mg/dL)	SD 5	12.2 ± 0.7 (5)
Percent of Control		98.4
Creatinine (mg/dL)	SD 5	0.40 ± 0.00 (5)
Percent of Control		111.11
Glucose (mg/dL)	SD 5	244.7 ± 17.3 (3)
Percent of Control		100.9
Sodium (mmol/L)	SD 5	146.8 ± 0.5 (6) *
Percent of Control		98.8
Potassium (mmol/L)	SD 5	6.9 ± 0.4 (6)
Percent of Control		88.2
Chloride (mmol/L)	SD 5	103.0 ± 0.5 (6)
Percent of Control		102.0
Total Protein (g/dL)	SD 5	5.90 ± 0.03 (5)
Percent of Control		97.04
Globulin (g/dL)	SD 5	1.58 ± 0.05 (5)
Percent of Control		97.53
A/G Ratio	SD 5	2.75 ± 0.11 (5)
Percent of Control		97.26
Albumin (g/dL)	SD 5	4.32 ± 0.04 (5)
Percent of Control		96.86
Cholesterol (mg/dL)	SD 5	135.8 ± 5.5 (5)
Percent of Control		90.1

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	Phase Day	Treatment Groups
		550
Triglyceride (mg/dL)	SD 5	87.0 ± 9.1 (5)
Percent of Control		111.0
Alanine Aminotransferase (IU/L)	SD 5	53.4 ± 1.7 (5)
Percent of Control		94.7
Creatine Kinase (IU/L)	SD 5	192.6 ± 16.9 (5)
Percent of Control		99.2
Sorbitol Dehydrogenase (IU/L)	SD 5	11.7 ± 4.7 (3)
Percent of Control		202.5
Bile salt/acids (umol/L)	SD 5	31.5 ± 5.9 (4)
Percent of Control		59.7

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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 each for Bile salts/acids, Cholesterol and glucose in the 0 mg/kg group were excluded. One value each for A/G Ratio, Bile salts/acids, Creatine Kinase, Globulin, Glucose, Sorbitol Dehydrogenase, Total Protein, Triglycerides, and Urea Nitrogen in the 0.55 mg/kg group were excluded. One value each for Albumin, Alanine Aminotransferase, Cholesterol, Creatinine, Globulin, Glucose, Total Protein, and Urea Nitrogen in the 5.50 group were excluded. One value for Bile salts/acids and two values each for Glucose and Sorbitol Dehydrogenase in the 550 mg/kg group were excluded.

**** END OF REPORT ****