

Study Number: C10674
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

PA41: Clinical Chemistry Summary
Test Compound: 2-Ethylhexyl Diphenyl Phosphate
CAS Number: 1241-94-7

Date Report Requested: 08/24/2021
Time Report Requested: 10:52:27
Lab: NTP

Study Number: C10674
Study Gender: Male
PWG Approval Date: See web page for date of PWG Approval
Version: v1.3.0
Stat Version: v2.6.3A

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Male: Original Animals

	Phase Day	Treatment Groups (mMol/kg)				
		0	0.169	0.338	0.675	1.35
Urea Nitrogen (mg/dL)	SD 4	12.8 ± 0.5 (4)	12.3 ± 1.3 (3)	14.0 ± 1.1 (4)	13.2 ± 1.4 (5)	12.5 ± 1.0 (4)
Percent of Control			96.7	109.8	103.5	98.0
Creatinine (mg/dL)	SD 4	0.35 ± 0.03 (4)	0.32 ± 0.04 (3)	0.32 ± 0.03 (4)	0.33 ± 0.02 (5)	0.30 ± 0.01 (4)
Percent of Control			91.4	92.1	93.1	85.7
Total Protein (g/dL)	SD 4	6.45 ± 0.13 (4)	6.80 ± 0.17 (3)	6.48 ± 0.19 (4)	6.52 ± 0.20 (5)	6.75 ± 0.12 (4)
Percent of Control			105.4	100.4	101.1	104.7
Globulin (g/dL)	SD 4	2.90 ± 0.04 (4) *	3.10 ± 0.12 (3)	2.93 ± 0.06 (4)	3.02 ± 0.12 (5)	3.20 ± 0.07 (4)
Percent of Control			106.9	100.9	104.1	110.3
A/G Ratio	SD 4	1.23 ± 0.06 (4) *	1.20 ± 0.03 (3)	1.21 ± 0.04 (4)	1.16 ± 0.02 (5)	1.11 ± 0.04 (4)
Percent of Control			97.5	99.0	94.8	90.7
Albumin (g/dL)	SD 4	3.55 ± 0.14 (4)	3.70 ± 0.06 (3)	3.55 ± 0.15 (4)	3.50 ± 0.09 (5)	3.55 ± 0.10 (4)
Percent of Control			104.2	100.0	98.6	100.0
Cholesterol (mg/dL)	SD 4	115.0 ± 9.1 (4) **	113.0 ± 1.0 (3)	133.5 ± 2.1 (4)	128.6 ± 10.5 (5)	142.5 ± 11.1 (4) *
Percent of Control			98.3	116.1	111.8	123.9
Triglyceride (mg/dL)	SD 4	63.5 ± 11.1 (4)	91.7 ± 19.9 (3)	96.3 ± 13.4 (4)	75.2 ± 3.1 (5)	76.3 ± 12.1 (4)
Percent of Control			144.4	151.6	118.4	120.1
LDL Cholesterol (mg/dL)	SD 4	25.8 ± 0.9 (4)	27.0 ± 1.5 (3)	28.5 ± 0.5 (4)	24.0 ± 1.1 (5)	23.5 ± 3.3 (4)
Percent of Control			104.9	110.7	93.2	91.3
HDL Cholesterol (mg/dL)	SD 4	50.0 ± 2.7 (4) **	54.7 ± 3.8 (3)	68.0 ± 2.3 (4) **	68.0 ± 4.4 (5) *	74.8 ± 9.9 (4) *
Percent of Control			109.3	136.0	136.0	149.5
Alanine Aminotransferase (IU/L)	SD 4	59.5 ± 9.9 (4)	64.7 ± 1.9 (3)	71.8 ± 5.9 (4)	66.2 ± 11.4 (5)	46.8 ± 7.6 (4)
Percent of Control			108.7	120.6	111.3	78.6

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	Phase Day	Treatment Groups (mMol/kg)				
		0	0.169	0.338	0.675	1.35
Aspartate Aminotransferase (U/L) Percent of Control	SD 4	169.75 ± 46.17 (4) **	123.00 ± 27.43 (3) 72.5	115.75 ± 22.48 (4) 68.2	92.20 ± 15.07 (5) 54.3	69.50 ± 6.40 (4) 40.9
Sorbitol Dehydrogenase (IU/L) Percent of Control	SD 4	14.8 ± 5.4 (4)	14.1 ± 1.5 (3) 95.6	21.8 ± 7.2 (4) 147.5	15.4 ± 2.7 (5) 104.4	12.4 ± 0.8 (4) 84.2
Bile salt/acids (umol/L) Percent of Control	SD 4	52.2 ± 5.2 (4) **	34.9 ± 4.2 (3) * 66.9	22.2 ± 4.7 (4) ** 42.5	27.6 ± 2.6 (5) ** 53.0	16.5 ± 4.5 (4) ** 31.6

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	Phase Day	Treatment Groups 2.7
Urea Nitrogen (mg/dL)	SD 4	13.3 ± 0.7 (3)
Percent of Control		104.6
Creatinine (mg/dL)	SD 4	0.34 ± 0.01 (3)
Percent of Control		98.1
Total Protein (g/dL)	SD 4	6.83 ± 0.12 (3)
Percent of Control		105.9
Globulin (g/dL)	SD 4	3.20 ± 0.12 (3)
Percent of Control		110.3
A/G Ratio	SD 4	1.14 ± 0.04 (3)
Percent of Control		92.9
Albumin (g/dL)	SD 4	3.63 ± 0.03 (3)
Percent of Control		102.3
Cholesterol (mg/dL)	SD 4	150.3 ± 16.7 (3) *
Percent of Control		130.7
Triglyceride (mg/dL)	SD 4	73.0 ± 5.3 (3)
Percent of Control		115.0
LDL Cholesterol (mg/dL)	SD 4	21.3 ± 1.2 (3)
Percent of Control		82.8
HDL Cholesterol (mg/dL)	SD 4	87.7 ± 9.6 (3) **
Percent of Control		175.3
Alanine Aminotransferase (IU/L)	SD 4	59.7 ± 9.3 (3)
Percent of Control		100.3

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	Phase Day	Treatment Groups
		2.7
Aspartate Aminotransferase (U/L)	SD 4	92.33 ± 16.48 (3)
Percent of Control		54.4
Sorbitol Dehydrogenase (IU/L)	SD 4	10.6 ± 2.0 (3)
Percent of Control		71.9
Bile salt/acids (umol/L)	SD 4	20.0 ± 5.0 (3) **
Percent of Control		38.4

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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 was performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests.

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 ****