

Study Number: C10978

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA41: Clinical Chemistry Summary

Test Compound: tert-Butylphenyl Diphenyl Phosphate

CAS Number: 56803-37-3

Date Report Requested: 08/24/2021

Time Report Requested: 10:53:35

Lab: NTP

Study Number:

C10978

Study Gender:

Male

PWG Approval Date:

See web page for date of PWG Approval

Version:

v1.3.0

Stat Version:

v2.6.3A

Study Number: C10978

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA41: Clinical Chemistry Summary

Test Compound: tert-Butylphenyl Diphenyl Phospate

CAS Number: 56803-37-3

Date Report Requested: 08/24/2021

Time Report Requested: 10:53:35

Lab: NTP

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)	11.0 ± 0.6 (3)	11.6 ± 1.4 (5)	14.4 ± 1.0 (5)	14.4 ± 1.2 (5)
Percent of Control			86.3	91.0	112.9	112.9
Creatinine (mg/dL)	SD 4	0.35 ± 0.03 (4) *	0.33 ± 0.00 (3)	0.33 ± 0.01 (5)	0.31 ± 0.02 (5)	0.30 ± 0.02 (5)
Percent of Control			94.3	94.9	88.6	86.3
Total Protein (g/dL)	SD 4	6.45 ± 0.13 (4)	6.67 ± 0.15 (3)	6.48 ± 0.12 (5)	6.42 ± 0.17 (5)	6.52 ± 0.11 (5)
Percent of Control			103.4	100.5	99.5	101.1
Globulin (g/dL)	SD 4	2.90 ± 0.04 (4)	3.03 ± 0.18 (3)	2.90 ± 0.05 (5)	2.76 ± 0.13 (5)	2.90 ± 0.10 (5)
Percent of Control			104.6	100.0	95.2	100.0
A/G Ratio	SD 4	1.23 ± 0.06 (4)	1.21 ± 0.08 (3)	1.23 ± 0.01 (5)	1.34 ± 0.06 (5)	1.26 ± 0.06 (5)
Percent of Control			98.5	100.7	109.0	102.4
Albumin (g/dL)	SD 4	3.55 ± 0.14 (4)	3.63 ± 0.03 (3)	3.58 ± 0.07 (5)	3.66 ± 0.06 (5)	3.62 ± 0.07 (5)
Percent of Control			102.3	100.8	103.1	102.0
Cholesterol (mg/dL)	SD 4	115.0 ± 9.1 (4)	112.7 ± 5.8 (3)	116.6 ± 5.0 (5)	108.6 ± 7.2 (5)	122.8 ± 7.4 (5)
Percent of Control			98.0	101.4	94.4	106.8
Triglyceride (mg/dL)	SD 4	63.5 ± 11.1 (4)	54.3 ± 5.7 (3)	54.6 ± 9.6 (5)	54.4 ± 4.2 (5)	68.4 ± 7.6 (5)
Percent of Control			85.6	86.0	85.7	107.7
LDL Cholesterol (mg/dL)	SD 4	25.8 ± 0.9 (4)	28.7 ± 1.7 (3)	28.4 ± 4.5 (5)	25.6 ± 2.1 (5)	28.2 ± 1.7 (5)
Percent of Control			111.3	110.3	99.4	109.5
HDL Cholesterol (mg/dL)	SD 4	50.0 ± 2.7 (4)	51.3 ± 3.8 (3)	62.2 ± 2.1 (5)	58.0 ± 3.8 (5)	62.8 ± 3.4 (5)
Percent of Control			102.7	124.4	116.0	125.6
Alanine Aminotransferase (IU/L)	SD 4	59.5 ± 9.9 (4)	44.0 ± 3.5 (3)	67.2 ± 3.8 (5)	64.8 ± 0.9 (5)	84.0 ± 16.1 (5)
Percent of Control			73.9	112.9	108.9	141.2

Study Number: C10978

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA41: Clinical Chemistry Summary

Test Compound: tert-Butylphenyl Diphenyl Phosphate

CAS Number: 56803-37-3

Date Report Requested: 08/24/2021

Time Report Requested: 10:53:35

Lab: NTP

Male: Original Animals

	Phase Day	Treatment Groups (mMol/kg)				
		0	0.169	0.338	0.675	1.35
Aspartate Aminotransferase (U/L)	SD 4	169.75 ± 46.17 (4)	71.00 ± 4.36 (3)	106.40 ± 14.26 (5)	93.20 ± 16.07 (5)	91.40 ± 15.00 (5)
Percent of Control			41.8	62.7	54.9	53.8
Sorbitol Dehydrogenase (IU/L)	SD 4	14.8 ± 5.4 (4)	12.1 ± 0.8 (3)	9.6 ± 1.6 (5)	11.5 ± 1.5 (5)	15.1 ± 2.3 (5)
Percent of Control			81.8	64.8	78.1	102.2
Bile salt/acids (umol/L)	SD 4	52.2 ± 5.2 (4) *	35.1 ± 2.3 (3)	41.9 ± 6.4 (5)	30.9 ± 9.0 (5)	41.5 ± 6.5 (5)
Percent of Control			67.2	80.3	59.3	79.5

Study Number: C10978

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA41: Clinical Chemistry Summary

Test Compound: tert-Butylphenyl Diphenyl Phosphate

CAS Number: 56803-37-3

Date Report Requested: 08/24/2021

Time Report Requested: 10:53:35

Lab: NTP

Male: Original Animals

	Phase Day	Treatment Groups
		2.7
Urea Nitrogen (mg/dL)	SD 4	13.0 ± 1.3 (4)
Percent of Control		102.0
Creatinine (mg/dL)	SD 4	0.28 ± 0.02 (4)
Percent of Control		78.6
Total Protein (g/dL)	SD 4	6.33 ± 0.09 (4)
Percent of Control		98.1
Globulin (g/dL)	SD 4	2.80 ± 0.07 (4)
Percent of Control		96.6
A/G Ratio	SD 4	1.26 ± 0.04 (4)
Percent of Control		102.9
Albumin (g/dL)	SD 4	3.53 ± 0.05 (4)
Percent of Control		99.3
Cholesterol (mg/dL)	SD 4	131.5 ± 14.7 (4)
Percent of Control		114.3
Triglyceride (mg/dL)	SD 4	68.3 ± 1.7 (4)
Percent of Control		107.5
LDL Cholesterol (mg/dL)	SD 4	27.8 ± 2.3 (4)
Percent of Control		107.8
HDL Cholesterol (mg/dL)	SD 4	55.3 ± 6.1 (4)
Percent of Control		110.5
Alanine Aminotransferase (IU/L)	SD 4	132.5 ± 72.9 (4)
Percent of Control		222.7

Study Number: C10978

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA41: Clinical Chemistry Summary

Test Compound: tert-Butylphenyl Diphenyl Phospate

CAS Number: 56803-37-3

Date Report Requested: 08/24/2021

Time Report Requested: 10:53:35

Lab: NTP

Male: Original Animals

	Phase Day	Treatment Groups 2.7
Aspartate Aminotransferase (U/L) Percent of Control	SD 4	154.50 ± 96.20 (4) 91.0
Sorbitol Dehydrogenase (IU/L) Percent of Control	SD 4	22.0 ± 13.8 (4) 149.5
Bile salt/acids (umol/L) Percent of Control	SD 4	23.4 ± 5.8 (4) * 44.9

Study Number: C10978

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA41: Clinical Chemistry Summary

Test Compound: tert-Butylphenyl Diphenyl Phospate

CAS Number: 56803-37-3

Date Report Requested: 08/24/2021

Time Report Requested: 10:53:35

Lab: NTP

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 ****