

Study Number: C11042B-01
Test Type: TOX with Perinatal Exposure
Route: Dosing in Feed
Species/Strain: Rat/Harlan Sprague Dawley

PA53: Special Chemistry Summary
Test Compound: Triphenyl Phosphate (TPHP)
CAS Number: 115-86-6

Date Report Requested: 05/22/2026
Time Report Requested: 15:03:57
Lab: Battelle

Study Number: C11042B-01
Study Sex: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.7.8
Stat Version: 2023.02.27S

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F1 Male: Neurobehavioral Cohort

	Phase Day	Treatment Groups (ppm)											
		0			30			100			300		
C-Peptide (pg/mL)	PND 138 - 144	10931.9	± 1220.4	(10)	10458.0	± 355.8	(10)	11563.7	± 1023.7	(10)	11503.4	± 758.2	(10)
Percent of Control						95.7			105.8			105.2	
Leptin (pg/mL)	PND 138 - 144	3437.2	± 396.7	(10) **	3141.8	± 298.3	(10)	3026.9	± 272.3	(10)	2952.7	± 155.9	(10)
Percent of Control						91.4			88.1			85.9	
Insulin (ng/mL)	PND 138 - 144	11.82	± 1.63	(10)	12.44	± 1.04	(10)	13.03	± 1.33	(10)	13.47	± 1.35	(10)
Percent of Control						105.2			110.2			113.9	
Non-Esterified Fatty Acids (mmol/L)	PND 138 - 144	0.318	± 0.027	(10)	0.311	± 0.018	(9)	0.278	± 0.036	(9)	0.237	± 0.026	(9)
Percent of Control						97.9			87.4			74.5	

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F1 Male: Neurobehavioral Cohort

	Phase Day	Treatment Groups (ppm)					
		1000			3000		
C-Peptide (pg/mL)	PND 138 - 144	9673.9	± 1074.0	(10)	10419.6	± 957.4	(10)
Percent of Control			88.5			95.3	
Leptin (pg/mL)	PND 138 - 144	2576.7	± 131.2	(9)	2238.7	± 112.3	(10) **
Percent of Control			75.0			65.1	
Insulin (ng/mL)	PND 138 - 144	11.43	± 1.39	(10)	13.20	± 2.07	(10)
Percent of Control			96.7			111.7	
Non-Esterified Fatty Acids (mmol/L)	PND 138 - 144	0.301	± 0.024	(7)	0.294	± 0.019	(8)
Percent of Control			94.6			92.6	

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F1 Female: Neurobehavioral Cohort

	Phase Day	Treatment Groups (ppm)											
		0		30		100		300					
C-Peptide (pg/mL)	PND 138 - 143	5947.3	± 619.5	(10) *	7014.6	± 662.8	(10)	9490.3	± 1420.6	(9)	5059.7	± 603.2	(10)
Percent of Control						117.9			159.6			85.1	
Leptin (pg/mL)	PND 138 - 143	1513.9	± 147.2	(10) *	1349.8	± 120.6	(10)	1865.8	± 220.5	(10)	1454.1	± 149.1	(10)
Percent of Control						89.2			123.2			96.1	
Insulin (ng/mL)	PND 138 - 143	7.24	± 0.81	(10) *	8.25	± 0.99	(10)	13.40	± 3.24	(10)	5.84	± 0.87	(10)
Percent of Control						114.0			185.0			80.6	
Non-Esterified Fatty Acids (mmol/L)	PND 138 - 143	0.332	± 0.040	(8)	0.253	± 0.046	(8)	0.250	± 0.027	(8)	0.331	± 0.038	(8)
Percent of Control						76.2			75.3			99.8	

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F1 Female: Neurobehavioral Cohort

	Phase Day	Treatment Groups (ppm)	
		1000	3000
C-Peptide (pg/mL)	PND 138 - 143	6688.2 ± 580.0 (8)	3977.6 ± 466.7 (10)
Percent of Control		112.5	66.9
Leptin (pg/mL)	PND 138 - 143	1399.9 ± 141.4 (10)	1041.2 ± 55.3 (10)
Percent of Control		92.5	68.8
Insulin (ng/mL)	PND 138 - 143	7.14 ± 0.71 (9)	4.78 ± 0.71 (10)
Percent of Control		98.5	66.1
Non-Esterified Fatty Acids (mmol/L)	PND 138 - 143	0.283 ± 0.043 (9)	0.379 ± 0.050 (9)
Percent of Control		85.2	114.2

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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.

Each individual sample was analyzed in duplicate or triplicate; samples with only one valid result or a CV >30% between results were removed from analysis. Final data used for analysis is the median of the duplicate or triplicate results for each individual sample.

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 $p \leq 0.01$

PND = Postnatal Day

SEM = Standard Error of the Mean

CV = Coefficient of Variation

The Leptin value from one male in the 1000 ppm dosed group was removed as an outlier.

**** END OF REPORT ****