

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

**R06: Andrology Summary**  
**Test Compound:** Triphenyl Phosphate (TPHP)  
**CAS Number:** 115-86-6

**Date Report Requested:** 05/22/2026  
**Time Report Requested:** 11:36:46  
**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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				Male			
Generation	TSAC	Cohort		Treatment Groups (ppm)			
				0	300	1000	3000
F1	PND 124 - 128	Subchronic Cohort	No. Examined	10	10	10	10
			Testicular Spermatid Count (10 <sup>6</sup> )	136.7 ± 6.6	159.3 ± 10.0	153.3 ± 10.0	143.1 ± 7.2
			Testicular Spermatid Count per g Testis (10 <sup>6</sup> /g)	80.9 ± 3.9	93.5 ± 4.4	88.7 ± 4.1	84.8 ± 3.3
			Percent Motile Sperm	81.0 ± 2.4	81.4 ± 3.5	75.4 ± 2.9	81.0 ± 2.2
			Percent Progressively Motile Sperm	78.4 ± 2.2	78.2 ± 3.4	73.0 ± 3.0	78.8 ± 1.9
			Cauda Weight (g)	0.253 ± 0.007	0.252 ± 0.004	0.260 ± 0.010	0.254 ± 0.006
			Cauda Epididymis Sperm Count (10 <sup>6</sup> )	130.9 ± 21.1	104.3 ± 16.2	123.9 ± 21.1	137.4 ± 13.7
			Cauda Epididymis Sperm Count per g Cauda (10 <sup>6</sup> /g)	527.4 ± 88.2	420.0 ± 67.1	465.7 ± 73.6	538.7 ± 48.2
			Amplitude of Lateral Head Displacement (um)	21.38 ± 0.42	20.44 ± 0.46	21.14 ± 0.42	20.16 ± 0.52
			Average Path Velocity (um/second)	173.34 ± 1.66	162.56 ± 5.06	166.94 ± 4.93	161.30 ± 6.07
			Curvilinear Velocity (um/second)	391.00 ± 8.09	362.48 ± 17.69	381.40 ± 14.20	349.16 ± 16.99
			Percent Linearity	32.4 ± 0.7	32.4 ± 0.8	32.6 ± 1.2	34.0 ± 0.6
			Straight Line Velocity (um/second)	125.26 ± 2.61	115.60 ± 6.69	120.82 ± 5.68	117.50 ± 5.49
			Percent Straightness	72.0 ± 1.1	70.6 ± 2.2	71.6 ± 1.7	72.2 ± 1.1

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		Male									
Generation	TSAC	Cohort	Treatment Groups (ppm)								
			0		300		1000		3000		
F1	PND 138 - 143	Neurobehavioral Cohort	No. Examined	10	10	10	10				
			Testicular Spermatid Count (10 <sup>6</sup> )	161.4 ± 14.9	158.4 ± 6.8	172.3 ± 15.2	159.9 ± 13.4				
			Testicular Spermatid Count per g Testis (10 <sup>6</sup> /g)	94.4 ± 7.3	93.1 ± 5.1	101.5 ± 6.3	94.5 ± 5.4				
			Percent Motile Sperm	76.6 ± 3.9	80.4 ± 3.3	81.9 ± 2.3	78.7 ± 2.5				
			Percent Progressively Motile Sperm	73.9 ± 3.9	77.6 ± 3.6	79.0 ± 2.6	76.1 ± 2.5				
			Cauda Weight (g)	0.247 ± 0.006	0.262 ± 0.007	0.271 ± 0.004 *	0.257 ± 0.006				
			Cauda Epididymis Sperm Count (10 <sup>6</sup> )	143.9 ± 13.2 **	170.5 ± 7.5	194.5 ± 13.6 *	185.3 ± 8.9 *				
			Cauda Epididymis Sperm Count per g Cauda (10 <sup>6</sup> /g)	582.8 ± 52.8 *	594.8 ± 66.9	713.4 ± 42.2	720.5 ± 30.1				
			Amplitude of Lateral Head Displacement (um)	20.09 ± 0.36	19.71 ± 0.51	20.27 ± 0.51	19.93 ± 0.39				
			Average Path Velocity (um/second)	163.90 ± 3.75	158.94 ± 5.03	158.02 ± 3.76	161.72 ± 4.68				
			Curvilinear Velocity (um/second)	381.04 ± 12.05	352.60 ± 16.97	345.06 ± 10.05	367.23 ± 11.58				
			Percent Linearity	31.0 ± 0.6	33.0 ± 0.8	32.5 ± 0.5	32.6 ± 0.6				
			Straight Line Velocity (um/second)	115.13 ± 3.79	113.35 ± 4.96	110.18 ± 4.07	117.84 ± 5.06				
			Percent Straightness	69.6 ± 1.1	70.4 ± 1.8	69.4 ± 1.6	72.3 ± 1.2				

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## LEGEND

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Data are displayed as mean  $\pm$  SEM.

No. Examined endpoints are displayed as N.

Statistical analysis performed by Jonckheere (trend) and then a pairwise test. Williams or Dunnett (pairwise) tests are used for organ weights, Shirley or Dunn (pairwise) tests are used for all other endpoints.

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

TSAC = Terminal Euthanasia

One Cauda Epididymis Sperm Count (IVOS) in the 300 ppm dose group was excluded from the analysis as an outlier.

Measurements of Amplitude of Lateral Head Displacement, Average Path Velocity, Curvilinear Velocity, Percent Linearity, Percent Motile Sperm, Percent Progressively Motile Sperm, Straight Line Velocity, and Percent Straightness were inadvertently not taken for 5 animals in each group from Subchronic Cohort. The No. Examined was 5 for these endpoints.

Measurements of Cauda Epididymis Sperm Count and Cauda Epididymis Sperm Count per g Cauda were inadvertently not taken for 1 animal in 3000 ppm group from Subchronic Cohort. The No. Examined was 9 for these endpoints.

Measurements of Testicular Spermatid Count and Testicular Spermatid Count per g Testis were inadvertently not taken for 4 animals in each group from Neuro Cohort. The No. Examined was 6 for these endpoints.

**\*\* END OF REPORT \*\***