

**Study Number:** C08004-04  
**Test Type:** TOX  
**Route:** Dosing in Water  
**Species/Strain:** Mouse/B6C3F1/N

**R06: Andrology Summary**  
**Test Compound:** Vanadyl sulfate  
**CAS Number:** 27774-13-6

**Date Report Requested:** 06/24/2019  
**Time Report Requested:** 11:16:46  
**Lab:** Battelle

**C Number:** C08004-04  
**Study Gender:** Both  
**PWG Approval Date** See web page for date of PWG Approval

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Male

Generation	Litter ID	Terminal Sac	Cohort	Treatment Groups (mg/L)				
				0	83.8	168	335	
		SD 91 - 92	Core Males	No. Examined	10	10	10	10
				Testicular Spermatid Count (10 <sup>6</sup> )	9.1 ± 1.6	9.2 ± 1.1	9.3 ± 1.6	8.1 ± 1.3
				Testicular Spermatid Count per g Testis (10 <sup>6</sup> /g)	88.0 ± 14.6	99.3 ± 10.6	97.5 ± 16.2	85.7 ± 13.9
				Percent Motile Sperm	85.7 ± 2.4	81.7 ± 3.1	86.5 ± 2.6	82.8 ± 2.6
				Percent Progressively Motile Sperm	78.3 ± 2.3	74.3 ± 3.0	78.3 ± 2.6	74.3 ± 2.8
				Cauda Weight (g)	0.016 ± 0.000	0.016 ± 0.001	0.016 ± 0.000	0.016 ± 0.001
				Cauda Epididymis Sperm Count (millions)	36.5 ± 2.2	31.3 ± 2.2	33.9 ± 4.0	31.9 ± 1.4
				Cauda Epididymis Sperm Count per g Cauda (10 <sup>6</sup> /g)	2300.9 ± 140.5	2016.2 ± 126.8	2143.6 ± 182.1	2054.0 ± 87.8
				Amplitude of Lateral Head Displacement (um)	13.73 ± 0.31	13.07 ± 0.27	13.68 ± 0.25	13.64 ± 0.25
				Average Path Velocity (um/second)	121.62 ± 2.46	128.53 ± 5.21	117.91 ± 3.28	118.82 ± 2.03
				Curvilinear Velocity (um/second)	247.04 ± 5.73	250.46 ± 8.66	237.97 ± 5.51	239.23 ± 4.18
				Percent Linearity	37.8 ± 0.7	40.6 ± 1.3	37.0 ± 1.0	37.5 ± 1.0
				Straight Line Velocity (um/second)	92.39 ± 2.77	101.49 ± 5.89	87.29 ± 4.12	88.83 ± 3.02
				Percent Straightness	75.4 ± 1.0	77.8 ± 1.6	73.4 ± 1.5	74.0 ± 1.4

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## LEGEND

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Data are displayed as mean  $\pm$  SEM.

Statistical analysis performed by Jonckheere (trend) and then a pairwise test. Williams/Dunnett pairwise tests are used for organ weights, Shirley/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  $P \leq 0.01$

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