

Study Number: C94043-04

Test Type: TOX

Route: Dosing in Water

Species/Strain: Mouse/B6C3F1/N

C Number:

Study Gender:

PWG Approval Date

R06: Andrology Summary

Test Compound: Sodium Metavanadate

CAS Number: 13718-26-8

C94043-04

Both

See web page for date of PWG Approval

Date Report Requested: 03/29/2019

Time Report Requested: 11:36:28

Lab: Battelle

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Male

Generation	Litter ID	Terminal Sac	Cohort	Treatment Groups (mg/L)				
				0	125	250	500	
		SD 91 - 91	Core Males	No. Examined	10	10	10	9
				Testicular Spermatid Count (10 ⁶)	9.3 ± 0.9 **	9.5 ± 0.8	10.7 ± 1.2	12.9 ± 0.9 *
				Testicular Spermatid Count per g Testis (10 ⁶ /g)	103.8 ± 11.3 **	99.2 ± 7.1	123.0 ± 10.6	146.6 ± 8.7 **
				Percent Motile Sperm	85.2 ± 1.9	86.2 ± 1.8	84.1 ± 1.6	87.8 ± 1.6
				Percent Progressively Motile Sperm	77.1 ± 3.2	77.9 ± 2.5	74.5 ± 1.5	77.8 ± 1.8
				Cauda Weight (g)	0.017 ± 0.001 **	0.018 ± 0.001	0.016 ± 0.001	0.015 ± 0.000 *
				Cauda Epididymis Sperm Count (millions)	34.5 ± 2.9	30.9 ± 1.5	31.8 ± 3.5	30.5 ± 1.3
				Cauda Epididymis Sperm Count per g Cauda (10 ⁶ /g)	1981.7 ± 149.4	1766.4 ± 80.7	2034.2 ± 229.8	2036.9 ± 85.3
				Amplitude of Lateral Head Displacement (um)	12.93 ± 0.23	13.12 ± 0.27	12.77 ± 0.26	12.48 ± 0.39
				Average Path Velocity (um/second)	138.34 ± 8.55	137.64 ± 6.82	121.71 ± 6.17	129.47 ± 8.10
				Curvilinear Velocity (um/second)	257.60 ± 11.56	256.84 ± 9.52	232.72 ± 7.29	239.10 ± 7.85
				Percent Linearity	43.2 ± 1.8	43.6 ± 1.4	40.8 ± 1.7	43.8 ± 2.5
				Straight Line Velocity (um/second)	114.60 ± 9.30	114.41 ± 7.38	97.34 ± 6.92	106.87 ± 9.62
				Percent Straightness	80.0 ± 1.8	80.5 ± 1.5	77.2 ± 1.5	79.8 ± 2.2

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LEGEND

Data are displayed as mean \pm SEM.

Statistical analysis for F0 data 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 ****