

Study Number: C94043-03

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

Study Number:

Study Gender:

PWG Approval Date:

Version:

Stat Version:

R06: Andrology Summary

Test Compound: Sodium Metavanadate

CAS Number: 13718-26-8

C94043-03

Both

See web page for date of PWG Approval

v1.2.7

S

Date Report Requested: 07/06/2021

Time Report Requested: 05:53:35

Lab: Battelle

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Male							
Generation	Terminal Sac	Cohort	Treatment Groups (mg/L)				
			0	125	250	500	
F1	PND 120 - 122	F1 Core Animals	No. Examined	10	10	10	12
			Testicular Spermatid Count (10 ⁶)	153.4 ± 5.9	139.0 ± 10.4	140.3 ± 10.5	135.0 ± 5.9
			Testicular Spermatid Count per g Testis (10 ⁶ /g)	83.3 ± 3.7	78.1 ± 5.8	77.7 ± 6.0	80.1 ± 4.2
			Percent Motile Sperm	86.1 ± 0.8	88.7 ± 1.3	86.4 ± 1.2	88.8 ± 1.2
			Percent Progressively Motile Sperm	81.8 ± 0.9	85.5 ± 1.4	82.0 ± 1.0	85.7 ± 1.3 *
			Cauda Weight (g)	0.270 ± 0.007 **	0.274 ± 0.007	0.273 ± 0.007	0.243 ± 0.006 **
			Cauda Epididymis Sperm Count (10 ⁶)	184.1 ± 9.7	188.5 ± 7.5	202.8 ± 12.9	156.1 ± 8.8
			Cauda Epididymis Sperm Count per g Cauda (10 ⁶ /g)	681.7 ± 28.4	688.8 ± 23.6	738.2 ± 34.2	640.3 ± 26.9
			Amplitude of Lateral Head Displacement (um)	17.95 ± 0.32	17.57 ± 0.35	18.11 ± 0.24	17.24 ± 0.30
			Average Path Velocity (um/second)	141.74 ± 3.30	137.31 ± 2.57	140.05 ± 2.17	140.20 ± 3.19
			Curvilinear Velocity (um/second)	281.79 ± 11.18	260.58 ± 7.06	271.79 ± 7.15	272.92 ± 9.13
			Percent Linearity	35.0 ± 1.2	36.4 ± 0.8	35.6 ± 0.8	37.1 ± 0.7
			Straight Line Velocity (um/second)	95.62 ± 4.96	91.15 ± 3.05	93.49 ± 3.31	97.93 ± 2.89
			Percent Straightness	67.1 ± 2.4	66.5 ± 1.5	66.7 ± 1.8	69.9 ± 1.1

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LEGEND

Data are displayed as mean \pm SEM.

Statistical analysis of the F1 organ weight endpoints performed using Jonckheere trend test and Williams or Dunnett for pairwise tests. Statistical analysis for all other F1 endpoints performed using Jonckheere trend test and Shirley or Dunn for 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 $P \leq 0.01$

All F1 animals contained one male or female per litter with the exception of the F1 core animal high-dose group (500 mg/L), where litter-mates ranged from 1-4. Litter-based analysis methods were therefore not applicable to the F1 500 mg/L dose group.

**** END OF REPORT ****