

Study Number: C08004-01

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

Study Number:

Study Gender:

PWG Approval Date

PA48: Summary of Tissue Concentration

Test Compound: Vanadyl sulfate

CAS Number: 27774-13-6

C08004-01

Both

See web page for date of PWG Approval

Date Report Requested: 05/26/2020

Time Report Requested: 11:06:19

Lab: Battelle

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		Male			
Phase	Dose (mg/L)	0	125	500	2000
SD 15	Whole Blood Vanadium Concentration (ng/ml)	BD	38.4 ± 5.31 (5)	117 ± 10.6 (4)	483 ± 95.7 (5)
SD 15	Plasma Vanadium Concentration (ng/ml)	BD	74.6 ± 9.69 (5)	223 ± 14.0 (4)	914 ± 172 (5)
SD 15	Liver Vanadium Concentration (ng/g)	BD	195 ± 23.9 (5)	785 ± 58.9 (5)	2290 ± 263 (5)

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		Female			
Phase	Dose (mg/L)	0	125	500	2000
SD 15	Whole Blood Vanadium Concentration (ng/ml)	BD	21.3 ± 3.89 (5)	159 ± 30.0 (5)	398 ± 206 (5)
SD 15	Plasma Vanadium Concentration (ng/ml)	BD	37.0 ± 6.39 (5)	282 ± 51.5 (5)	1200 ± 534 (3)
SD 15	Liver Vanadium Concentration (ng/g)	BD	145 ± 12.1 (5)	734 ± 85.6 (5)	2360 ± 459 (5)

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LEGEND

Data are displayed as mean \pm SEM (N) unless otherwise noted.

SD – Study Day

If over 20% of the animals in a group are above the limit of detection, then 1/2 the limit of detection value is substituted for values that are below the limit of detection.

When the control group did not have over 20% of its values above the limit of detection, no mean or standard error were calculated; no statistical analysis was done for the endpoint.

Statistical analysis 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 $P \leq 0.01$

BD - Group did not have over 20% of its values above the limit of detection.

When accounting for water content in the test article lot used (approximately 33%), the adjusted doses of vanadyl sulfate are 0, 83.8, 335, and 1340 mg/L.

**** END OF REPORT ****