

Experiment Number: C08004-01

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

C Number:

C08004-01

Cage Range:

All

Date Range:

All

Reasons For Removal:

All

Removal Date Range:

All

Treatment Groups:

All

Study Gender:

Both

PA06: ORGAN WEIGHTS SUMMARY

Test Compound: Vanadyl sulfate

CAS Number: 27774-13-6

Date Report Requested: 03/17/2016

Time Report Requested: 09:44:16

Lab: Battelle

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Males						
	Treatment Groups (mg/L)					
	0	125	250	500	1000	2000
Terminal Body Wt.	233.8 ± 0.7 (5) **	255.2 ± 2.3 (5)	240.3 ± 3.3 (5)	233.8 ± 3.6 (5)	227.5 ± 7.1 (5)	158.7 ± 6.4 (5) **
R. Epididymis						
Absolute (g)	0.3142 ± 0.0176 (5) *	0.2923 ± 0.0121 (5)	0.3141 ± 0.0158 (5)	0.2916 ± 0.0115 (5)	0.2855 ± 0.0089 (5)	0.2656 ± 0.0093 (5)
Relative (mg/g)	1.34 ± 0.08 (5) *	1.14 ± 0.04 (5)	1.31 ± 0.07 (5)	1.25 ± 0.04 (5)	1.26 ± 0.04 (5)	1.68 ± 0.06 (5) **
L. Epididymis						
Absolute (g)	0.3278 ± 0.0271 (5) **	0.2981 ± 0.0103 (5)	0.2960 ± 0.0113 (5)	0.2849 ± 0.0088 (5)	0.2700 ± 0.0042 (5) *	0.2591 ± 0.0160 (5) **
Relative (mg/g)	1.40 ± 0.12 (5)	1.17 ± 0.04 (5)	1.23 ± 0.05 (5)	1.22 ± 0.03 (5)	1.19 ± 0.03 (5)	1.63 ± 0.06 (5)
Heart						
Absolute (g)	0.97 ± 0.01 (5) **	1.04 ± 0.01 (5)	1.06 ± 0.02 (5)	0.96 ± 0.03 (5)	0.89 ± 0.04 (5) *	0.64 ± 0.02 (5) **
Relative (mg/g)	4.14 ± 0.04 (5)	4.08 ± 0.07 (5)	4.41 ± 0.10 (5)	4.13 ± 0.12 (5)	3.92 ± 0.09 (5)	4.07 ± 0.10 (5)
R. Kidney						
Absolute (g)	0.87 ± 0.02 (5)	0.89 ± 0.01 (5)	0.96 ± 0.03 (5)	0.86 ± 0.02 (5)	1.03 ± 0.05 (5) **	0.67 ± 0.04 (5) **
Relative (mg/g)	3.71 ± 0.08 (5) **	3.51 ± 0.06 (5)	3.99 ± 0.08 (5)	3.70 ± 0.02 (5)	4.51 ± 0.11 (5) **	4.23 ± 0.13 (5) **
L. Kidney						
Absolute (g)	0.83 ± 0.01 (5)	0.90 ± 0.02 (5)	0.95 ± 0.03 (5) **	0.85 ± 0.02 (5)	1.02 ± 0.03 (5) **	0.70 ± 0.04 (5) **
Relative (mg/g)	3.55 ± 0.04 (5) **	3.54 ± 0.10 (5)	3.97 ± 0.06 (5)	3.61 ± 0.04 (5)	4.47 ± 0.06 (5) **	4.39 ± 0.13 (5) **
Liver						
Absolute (g)	7.51 ± 0.23 (5)	10.12 ± 0.22 (5) **	10.24 ± 0.28 (5) **	7.42 ± 0.21 (5)	10.75 ± 0.45 (5) **	6.46 ± 0.54 (5)
Relative (mg/g)	32.12 ± 0.97 (5) *	39.65 ± 0.83 (5) **	42.65 ± 1.36 (5) **	31.71 ± 0.46 (5)	47.25 ± 1.23 (5) **	40.46 ± 1.84 (5) **
Lung						
Absolute (g)	2.11 ± 0.18 (5) **	1.75 ± 0.13 (5)	1.82 ± 0.32 (5)	1.72 ± 0.18 (5)	1.37 ± 0.09 (5) **	1.15 ± 0.03 (5) **
Relative (mg/g)	9.01 ± 0.77 (5)	6.84 ± 0.50 (5)	7.50 ± 1.20 (5)	7.32 ± 0.65 (5)	6.02 ± 0.26 (5) *	7.29 ± 0.35 (5)
R. Testis						
Absolute (g)	1.658 ± 0.046 (5) **	1.684 ± 0.020 (5)	1.755 ± 0.093 (5)	1.672 ± 0.022 (5)	1.569 ± 0.020 (5)	1.542 ± 0.063 (5)
Relative (mg/g)	7.09 ± 0.20 (5) *	6.60 ± 0.08 (5)	7.29 ± 0.29 (5)	7.16 ± 0.15 (5)	6.93 ± 0.24 (5)	9.77 ± 0.50 (5) **
L. Testis						
Absolute (g)	1.652 ± 0.035 (5) **	1.642 ± 0.026 (5)	1.707 ± 0.086 (5)	1.651 ± 0.029 (5)	1.542 ± 0.020 (5)	1.533 ± 0.065 (5)
Relative (mg/g)	7.07 ± 0.15 (5) *	6.43 ± 0.11 (5)	7.09 ± 0.27 (5)	7.07 ± 0.18 (5)	6.81 ± 0.25 (5)	9.72 ± 0.56 (5) **

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Lab: Battelle

Males						
Treatment Groups (mg/L)						
	0	125	250	500	1000	2000
Thymus						
Absolute (g)	0.57 ± 0.05 (5) **	0.61 ± 0.02 (5)	0.54 ± 0.03 (5)	0.49 ± 0.02 (5)	0.52 ± 0.04 (5)	0.36 ± 0.04 (5) **
Relative (mg/g)	2.42 ± 0.23 (5)	2.39 ± 0.07 (5)	2.25 ± 0.13 (5)	2.11 ± 0.06 (5)	2.30 ± 0.15 (5)	2.23 ± 0.14 (5)

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Females

Treatment Groups (mg/L)

	0	125	250	500	1000	2000
Terminal Body Wt.	163.6 ± 3.8 (5) **	165.2 ± 4.7 (5)	164.4 ± 3.6 (5)	162.3 ± 6.0 (5)	153.4 ± 2.0 (5)	97.2 ± 15.6 (5) **
Heart						
Absolute (g)	0.72 ± 0.02 (5) **	0.70 ± 0.03 (5)	0.71 ± 0.02 (5)	0.71 ± 0.03 (5)	0.65 ± 0.01 (5)	0.44 ± 0.06 (5) **
Relative (mg/g)	4.39 ± 0.15 (5)	4.21 ± 0.11 (5)	4.34 ± 0.06 (5)	4.38 ± 0.06 (5)	4.23 ± 0.06 (5)	4.61 ± 0.17 (5)
R. Kidney						
Absolute (g)	0.59 ± 0.02 (5)	0.61 ± 0.02 (5)	0.73 ± 0.03 (5) **	0.59 ± 0.02 (5)	0.66 ± 0.02 (5)	0.48 ± 0.05 (5) *
Relative (mg/g)	3.61 ± 0.08 (5) **	3.71 ± 0.11 (5)	4.44 ± 0.12 (5)	3.63 ± 0.06 (5)	4.33 ± 0.15 (5) **	5.12 ± 0.31 (5) **
L. Kidney						
Absolute (g)	0.58 ± 0.01 (5)	0.60 ± 0.02 (5)	0.71 ± 0.03 (5) *	0.58 ± 0.03 (5)	0.67 ± 0.01 (5)	0.47 ± 0.05 (5) *
Relative (mg/g)	3.56 ± 0.09 (5) **	3.64 ± 0.07 (5)	4.34 ± 0.13 (5)	3.56 ± 0.11 (5)	4.34 ± 0.07 (5) **	4.98 ± 0.23 (5) **
Liver						
Absolute (g)	6.69 ± 0.21 (5)	6.71 ± 0.28 (5)	8.33 ± 0.28 (5)	6.68 ± 0.38 (5)	6.73 ± 0.12 (5)	3.75 ± 0.88 (5) **
Relative (mg/g)	40.85 ± 0.54 (5)	40.56 ± 0.87 (5)	50.69 ± 1.47 (5) **	41.05 ± 0.97 (5)	43.91 ± 0.81 (5)	36.80 ± 2.87 (5)
Lung						
Absolute (g)	1.37 ± 0.04 (5) **	1.25 ± 0.07 (5)	1.35 ± 0.10 (5)	1.28 ± 0.06 (5)	1.13 ± 0.05 (5) *	0.86 ± 0.09 (5) **
Relative (mg/g)	8.39 ± 0.34 (5)	7.59 ± 0.51 (5)	8.21 ± 0.51 (5)	7.89 ± 0.38 (5)	7.40 ± 0.42 (5)	9.23 ± 0.72 (5)
R. Ovary						
Absolute (g)	0.0427 ± 0.0023 (5) *	0.0479 ± 0.0032 (5)	0.0426 ± 0.0029 (5)	0.0503 ± 0.0040 (5)	0.0420 ± 0.0029 (5)	0.0258 ± 0.0038 (5) **
Relative (mg/g)	0.26 ± 0.01 (5)	0.29 ± 0.02 (5)	0.26 ± 0.02 (5)	0.31 ± 0.02 (5)	0.27 ± 0.02 (5)	0.27 ± 0.01 (5)
L. Ovary						
Absolute (g)	0.0442 ± 0.0041 (5) *	0.0463 ± 0.0027 (5)	0.0429 ± 0.0041 (5)	0.0520 ± 0.0043 (5)	0.0392 ± 0.0046 (5)	0.0259 ± 0.0052 (5) *
Relative (mg/g)	0.27 ± 0.02 (5)	0.28 ± 0.01 (5)	0.26 ± 0.03 (5)	0.32 ± 0.02 (5)	0.25 ± 0.03 (5)	0.26 ± 0.03 (5)
Thymus						
Absolute (g)	0.45 ± 0.01 (5)	0.42 ± 0.03 (5)	0.45 ± 0.02 (5)	0.41 ± 0.03 (5)	0.47 ± 0.02 (5)	0.25 ± 0.09 (5) *
Relative (mg/g)	2.74 ± 0.08 (5)	2.54 ± 0.17 (5)	2.72 ± 0.10 (5)	2.52 ± 0.16 (5)	3.04 ± 0.09 (5)	2.25 ± 0.66 (5)

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LEGEND

Data are displayed as mean \pm SEM (N)

Relative organ weights (organ-weight-to-body-weight ratios) are given as mg organ weight/g body weight

Statistical analysis performed by Jonckheere (trend) and William or Dunnnett (pairwise) tests

Statistical significance for the control group indicates a significant trend test

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

**** END OF REPORT ****