

**Experiment Number:** C08004-02

**Test Type:** TOX

**Route:** Dosing in Water

**Species/Strain:** Mouse/B6C3F1/N

**C Number:**

C08004-02

**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:** 09:45:51

**Lab:** Battelle

Experiment Number: C08004-02

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Males						
	Treatment Groups (mg/L)					
	0	125	250	500	1000	2000
Terminal Body Wt.	26.0 ± 0.8 (5) **	25.1 ± 0.4 (5)	25.0 ± 0.9 (5)	24.4 ± 0.6 (5)	23.4 ± 0.4 (5) *	18.9 ± 1.2 (5) **
R. Epididymis						
Absolute (g)	0.0348 ± 0.0025 (5) *	0.0371 ± 0.0023 (5)	0.0372 ± 0.0017 (5)	0.0355 ± 0.0005 (5)	0.0335 ± 0.0029 (5)	0.0296 ± 0.0015 (5)
Relative (mg/g)	1.33 ± 0.06 (5)	1.48 ± 0.07 (5)	1.49 ± 0.07 (5)	1.46 ± 0.05 (5)	1.43 ± 0.13 (5)	1.58 ± 0.08 (5)
L. Epididymis						
Absolute (g)	0.0381 ± 0.0032 (5) **	0.0401 ± 0.0025 (5)	0.0354 ± 0.0034 (5)	0.0370 ± 0.0016 (5)	0.0358 ± 0.0019 (5)	0.0266 ± 0.0012 (5) **
Relative (mg/g)	1.46 ± 0.09 (5)	1.60 ± 0.10 (5)	1.41 ± 0.10 (5)	1.52 ± 0.07 (5)	1.54 ± 0.09 (5)	1.42 ± 0.08 (5)
Heart						
Absolute (g)	0.14 ± 0.00 (5) **	0.14 ± 0.01 (5)	0.14 ± 0.01 (5)	0.12 ± 0.00 (5)	0.12 ± 0.01 (5) *	0.10 ± 0.00 (5) **
Relative (mg/g)	5.44 ± 0.20 (5)	5.55 ± 0.34 (5)	5.61 ± 0.36 (5)	5.06 ± 0.10 (5)	5.04 ± 0.22 (5)	5.33 ± 0.23 (5)
R. Kidney						
Absolute (g)	0.24 ± 0.01 (5)	0.24 ± 0.01 (5)	0.24 ± 0.01 (5)	0.24 ± 0.00 (5)	0.24 ± 0.00 (5)	0.19 ± 0.01 (5) *
Relative (mg/g)	9.21 ± 0.12 (5) **	9.73 ± 0.50 (5)	9.57 ± 0.42 (5)	9.96 ± 0.15 (5)	10.15 ± 0.15 (5)	10.31 ± 0.36 (5) *
L. Kidney						
Absolute (g)	0.23 ± 0.01 (5) *	0.24 ± 0.01 (5)	0.23 ± 0.01 (5)	0.23 ± 0.01 (5)	0.23 ± 0.00 (5)	0.18 ± 0.01 (5) **
Relative (mg/g)	8.73 ± 0.19 (5) **	9.54 ± 0.33 (5)	9.19 ± 0.24 (5)	9.62 ± 0.13 (5) **	9.82 ± 0.17 (5) **	9.69 ± 0.22 (5) **
Liver						
Absolute (g)	1.68 ± 0.06 (5) **	1.61 ± 0.03 (5)	1.56 ± 0.10 (5)	1.57 ± 0.05 (5)	1.54 ± 0.04 (5)	1.17 ± 0.12 (5) **
Relative (mg/g)	64.59 ± 1.41 (5)	64.44 ± 0.66 (5)	62.25 ± 1.91 (5)	64.35 ± 0.97 (5)	65.90 ± 1.55 (5)	61.26 ± 2.64 (5)
Lung						
Absolute (g)	0.21 ± 0.02 (5)	0.18 ± 0.01 (5)	0.17 ± 0.01 (5)	0.19 ± 0.01 (5)	0.18 ± 0.01 (5)	0.16 ± 0.01 (5) *
Relative (mg/g)	8.04 ± 0.65 (5)	7.32 ± 0.51 (5)	6.93 ± 0.40 (5)	7.85 ± 0.45 (5)	7.86 ± 0.32 (5)	8.37 ± 0.43 (5)
R. Testis						
Absolute (g)	0.098 ± 0.004 (5)	0.100 ± 0.002 (5)	0.103 ± 0.003 (5)	0.101 ± 0.001 (5)	0.095 ± 0.002 (5)	0.097 ± 0.003 (5)
Relative (mg/g)	3.78 ± 0.04 (5) **	3.97 ± 0.09 (5)	4.14 ± 0.11 (5)	4.14 ± 0.08 (5)	4.07 ± 0.09 (5)	5.20 ± 0.21 (5) **
L. Testis						
Absolute (g)	0.094 ± 0.002 (5)	0.099 ± 0.002 (5)	0.096 ± 0.003 (5)	0.099 ± 0.002 (5)	0.096 ± 0.002 (5)	0.094 ± 0.003 (5)
Relative (mg/g)	3.63 ± 0.05 (5) **	3.95 ± 0.07 (5)	3.85 ± 0.12 (5)	4.06 ± 0.06 (5) *	4.10 ± 0.12 (5) *	5.01 ± 0.23 (5) **

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Males						
Treatment Groups (mg/L)						
	0	125	250	500	1000	2000
Thymus						
Absolute (g)	0.05 ± 0.00 (5) **	0.05 ± 0.00 (5)	0.05 ± 0.00 (5)	0.05 ± 0.00 (5)	0.06 ± 0.01 (5)	0.02 ± 0.00 (5) **
Relative (mg/g)	2.10 ± 0.11 (5) *	2.09 ± 0.09 (5)	2.13 ± 0.10 (5)	1.86 ± 0.08 (5)	2.53 ± 0.40 (5)	1.05 ± 0.15 (5) **

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## Females

## Treatment Groups (mg/L)

	0	125	250	500	1000	2000
Terminal Body Wt.	19.0 ± 0.9 (5) **	19.0 ± 0.2 (5)	18.3 ± 0.3 (5)	18.2 ± 0.5 (5)	16.6 ± 0.6 (5) **	11.9 ± 0.5 (5) **
Heart						
Absolute (g)	0.10 ± 0.00 (5) **	0.10 ± 0.00 (5)	0.10 ± 0.00 (5)	0.10 ± 0.00 (5)	0.09 ± 0.00 (5) **	0.07 ± 0.00 (5) **
Relative (mg/g)	5.51 ± 0.23 (5)	5.22 ± 0.15 (5)	5.34 ± 0.27 (5)	5.52 ± 0.13 (5)	5.30 ± 0.21 (5)	5.87 ± 0.31 (5)
R. Kidney						
Absolute (g)	0.14 ± 0.01 (5) *	0.14 ± 0.00 (5)	0.14 ± 0.00 (5)	0.14 ± 0.01 (5)	0.13 ± 0.01 (5)	0.12 ± 0.01 (5) *
Relative (mg/g)	7.28 ± 0.30 (5) **	7.51 ± 0.07 (5)	7.62 ± 0.27 (5)	7.82 ± 0.21 (5)	7.83 ± 0.19 (5)	9.94 ± 0.44 (5) **
L. Kidney						
Absolute (g)	0.14 ± 0.01 (5) **	0.13 ± 0.00 (5)	0.13 ± 0.00 (5)	0.13 ± 0.01 (5)	0.12 ± 0.00 (5) *	0.11 ± 0.00 (5) **
Relative (mg/g)	7.31 ± 0.15 (5) **	6.84 ± 0.07 (5)	7.27 ± 0.23 (5)	7.32 ± 0.16 (5)	7.43 ± 0.13 (5)	8.98 ± 0.16 (5) **
Liver						
Absolute (g)	0.99 ± 0.07 (5) **	0.97 ± 0.02 (5)	0.97 ± 0.03 (5)	0.96 ± 0.04 (5)	0.85 ± 0.04 (5) *	0.57 ± 0.03 (5) **
Relative (mg/g)	51.69 ± 2.24 (5)	50.84 ± 0.78 (5)	53.05 ± 2.10 (5)	52.94 ± 1.91 (5)	51.27 ± 0.83 (5)	48.19 ± 1.13 (5)
Lung						
Absolute (g)	0.16 ± 0.01 (5) **	0.16 ± 0.01 (5)	0.16 ± 0.01 (5)	0.16 ± 0.00 (5)	0.14 ± 0.01 (5)	0.13 ± 0.00 (5) **
Relative (mg/g)	8.45 ± 0.31 (5) **	8.17 ± 0.37 (5)	8.52 ± 0.49 (5)	8.56 ± 0.28 (5)	8.76 ± 0.48 (5)	10.88 ± 0.45 (5) **
R. Ovary						
Absolute (g)	0.0061 ± 0.0011 (5)	0.0071 ± 0.0010 (5)	0.0081 ± 0.0009 (5)	0.0071 ± 0.0009 (5)	0.0049 ± 0.0009 (5)	0.0047 ± 0.0010 (5)
Relative (mg/g)	0.33 ± 0.07 (5)	0.37 ± 0.05 (5)	0.45 ± 0.06 (5)	0.39 ± 0.05 (5)	0.30 ± 0.06 (5)	0.39 ± 0.07 (5)
L. Ovary						
Absolute (g)	0.0055 ± 0.0006 (5) *	0.0079 ± 0.0010 (5)	0.0086 ± 0.0010 (5)	0.0061 ± 0.0008 (5)	0.0059 ± 0.0010 (5)	0.0027 ± 0.0007 (5)
Relative (mg/g)	0.30 ± 0.04 (5)	0.42 ± 0.05 (5)	0.47 ± 0.06 (5)	0.33 ± 0.04 (5)	0.35 ± 0.05 (5)	0.22 ± 0.06 (5)
Thymus						
Absolute (g)	0.08 ± 0.00 (5) **	0.08 ± 0.00 (5)	0.07 ± 0.00 (5)	0.08 ± 0.00 (5)	0.06 ± 0.01 (5) **	0.02 ± 0.00 (5) **
Relative (mg/g)	4.00 ± 0.20 (5) **	3.99 ± 0.21 (5)	3.97 ± 0.28 (5)	4.23 ± 0.23 (5)	3.53 ± 0.31 (5)	1.54 ± 0.35 (5) **

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LEGEND

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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 Dunnett (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 \*\***