

Study Number: C08004-04
Test Type: TOX
Route: Dosing in Water
Species/Strain: Mouse/B6C3F1/N

PA06: Organ Weights Summary
Test Compound: Vanadyl sulfate
CAS Number: 27774-13-6

Date Report Requested: 06/24/2019
Time Report Requested: 11:15:51
Lab: Battelle

C Number:

C08004-04

Study Gender:

Both

PWG Approval Date

See web page for date of PWG Approval

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Males: Core Males

	Treatment Groups (mg/L)														
	0			21			41.9			83.8			168		
Terminal Body Wt.	37.2	± 1.1	(10) **	37.0	± 1.1	(10)	37.2	± 1.4	(10)	37.2	± 1.3	(10)	33.5	± 0.8	(10) *
R. Epididymis															
Absolute (g)	0.0459 ± 0.0006 (10)			0.0499 ± 0.0016 (10)			0.0456 ± 0.0020 (10)			0.0457 ± 0.0017 (10)			0.0451 ± 0.0009 (10)		
Relative (mg/g)	1.24 ± 0.04 (10)			1.36 ± 0.06 (10)			1.25 ± 0.09 (10)			1.24 ± 0.07 (10)			1.35 ± 0.03 (10)		
L. Epididymis															
Absolute (g)	0.0428 ± 0.0006 (10)			0.0455 ± 0.0008 (10)			0.0424 ± 0.0014 (10)			0.0421 ± 0.0012 (10)			0.0422 ± 0.0009 (10)		
Relative (mg/g)	1.16 ± 0.03 (10) **			1.24 ± 0.04 (10)			1.15 ± 0.05 (10)			1.14 ± 0.03 (10)			1.26 ± 0.03 (10)		
Heart															
Absolute (g)	0.17 ± 0.00 (10) **			0.18 ± 0.01 (10)			0.17 ± 0.01 (10)			0.17 ± 0.00 (10)			0.17 ± 0.01 (10)		
Relative (mg/g)	4.60 ± 0.11 (10)			4.98 ± 0.10 (10)			4.71 ± 0.17 (10)			4.63 ± 0.15 (10)			4.98 ± 0.20 (10)		
R. Kidney															
Absolute (g)	0.30 ± 0.01 (10)			0.31 ± 0.01 (10)			0.29 ± 0.00 (10)			0.30 ± 0.00 (10)			0.30 ± 0.01 (10)		
Relative (mg/g)	8.18 ± 0.17 (10) **			8.46 ± 0.21 (10)			7.80 ± 0.19 (10)			8.19 ± 0.23 (10)			8.86 ± 0.10 (10) *		
L. Kidney															
Absolute (g)	0.29 ± 0.01 (10)			0.29 ± 0.01 (10)			0.28 ± 0.00 (10)			0.29 ± 0.01 (10)			0.28 ± 0.01 (10)		
Relative (mg/g)	7.76 ± 0.18 (10) **			7.89 ± 0.21 (10)			7.62 ± 0.24 (10)			7.71 ± 0.19 (10)			8.22 ± 0.16 (10)		
Liver															
Absolute (g)	1.63 ± 0.05 (10)			1.65 ± 0.05 (10)			1.66 ± 0.07 (10)			1.68 ± 0.06 (10)			1.54 ± 0.04 (10)		
Relative (mg/g)	43.98 ± 0.57 (10) **			44.52 ± 0.43 (10)			44.64 ± 0.70 (10)			45.29 ± 0.85 (10)			45.94 ± 0.37 (10) *		
Lung															
Absolute (g)	0.24 ± 0.01 (10)			0.24 ± 0.01 (10)			0.24 ± 0.01 (10)			0.23 ± 0.01 (10)			0.24 ± 0.01 (10)		
Relative (mg/g)	6.49 ± 0.28 (10)			6.57 ± 0.41 (10)			6.54 ± 0.54 (10)			6.29 ± 0.45 (10)			7.11 ± 0.35 (10)		
R. Testis															
Absolute (g)	0.120 ± 0.002 (10)			0.122 ± 0.003 (10)			0.117 ± 0.001 (10)			0.114 ± 0.002 (10)			0.117 ± 0.002 (10)		
Relative (mg/g)	3.24 ± 0.10 (10) **			3.31 ± 0.11 (10)			3.17 ± 0.11 (10)			3.11 ± 0.12 (10)			3.50 ± 0.08 (10)		
L. Testis															
Absolute (g)	0.116 ± 0.003 (10)			0.117 ± 0.003 (10)			0.111 ± 0.001 (10)			0.110 ± 0.004 (10)			0.114 ± 0.002 (10)		
Relative (mg/g)	3.14 ± 0.10 (10) **			3.19 ± 0.13 (10)			3.02 ± 0.10 (10)			2.98 ± 0.13 (10)			3.41 ± 0.08 (10)		

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Males: Core Males

Treatment Groups (mg/L)

	0	21	41.9	83.8	168
Thymus					
Absolute (g)	0.046 ± 0.004 (10) **	0.046 ± 0.002 (10)	0.050 ± 0.004 (10)	0.048 ± 0.003 (10)	0.039 ± 0.002 (10)
Relative (mg/g)	1.23 ± 0.09 (10)	1.23 ± 0.04 (10)	1.33 ± 0.07 (10)	1.30 ± 0.07 (10)	1.15 ± 0.06 (10)

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	<u>Treatment Groups (mg/L)</u>		
	335		
Terminal Body Wt.	32.4	± 0.9	(10) **
R. Epididymis			
Absolute (g)	0.0454	± 0.0016	(10)
Relative (mg/g)	1.40	± 0.04	(10)
L. Epididymis			
Absolute (g)	0.0424	± 0.0008	(10)
Relative (mg/g)	1.31	± 0.03	(10) **
Heart			
Absolute (g)	0.15	± 0.01	(10)
Relative (mg/g)	4.75	± 0.14	(10)
R. Kidney			
Absolute (g)	0.30	± 0.01	(10)
Relative (mg/g)	9.34	± 0.18	(10) **
L. Kidney			
Absolute (g)	0.28	± 0.01	(10)
Relative (mg/g)	8.78	± 0.22	(10) **
Liver			
Absolute (g)	1.59	± 0.05	(10)
Relative (mg/g)	48.90	± 0.59	(10) **
Lung			
Absolute (g)	0.22	± 0.01	(10)
Relative (mg/g)	6.87	± 0.25	(10)
R. Testis			
Absolute (g)	0.118	± 0.003	(10)
Relative (mg/g)	3.65	± 0.09	(10) *
L. Testis			
Absolute (g)	0.114	± 0.003	(10)
Relative (mg/g)	3.53	± 0.08	(10) *

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Treatment Groups (mg/L)

335

Thymus

Absolute (g)	0.038 ± 0.002	(10)
Relative (mg/g)	1.17 ± 0.04	(10)

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Females: Core Females

	Treatment Groups (mg/L)														
	0			21			41.9			83.8			168		
Terminal Body Wt.	27.7	± 1.2	(10)	29.0	± 1.1	(10)	29.2	± 1.0	(10)	28.1	± 1.2	(10)	28.8	± 1.2	(10)
Heart															
Absolute (g)	0.12	± 0.00	(10)	0.13	± 0.00	(10)	0.13	± 0.00	(10)	0.12	± 0.00	(10)	0.12	± 0.00	(10)
Relative (mg/g)	4.47	± 0.17	(10)	4.45	± 0.20	(10)	4.32	± 0.17	(10)	4.45	± 0.21	(10)	4.34	± 0.17	(10)
R. Kidney															
Absolute (g)	0.16	± 0.00	(10)	0.16	± 0.00	(10)	0.16	± 0.01	(10)	0.16	± 0.00	(10)	0.16	± 0.00	(10)
Relative (mg/g)	5.81	± 0.11	(10)	5.65	± 0.21	(10)	5.44	± 0.16	(10)	5.81	± 0.26	(10)	5.60	± 0.18	(10)
L. Kidney															
Absolute (g)	0.14	± 0.00	(10)	0.15	± 0.00	(10)	0.15	± 0.01	(10)	0.15	± 0.01	(10)	0.15	± 0.00	(10)
Relative (mg/g)	5.20	± 0.12	(10)	5.26	± 0.17	(10)	5.15	± 0.09	(10)	5.50	± 0.32	(10)	5.19	± 0.19	(10)
Liver															
Absolute (g)	1.13	± 0.05	(10)	1.22	± 0.03	(10)	1.18	± 0.06	(10)	1.19	± 0.04	(10)	1.18	± 0.04	(10)
Relative (mg/g)	40.71	± 0.65	(10) *	42.58	± 1.41	(10)	40.39	± 1.43	(10)	42.49	± 0.90	(10)	41.12	± 1.31	(10)
Lung															
Absolute (g)	0.22	± 0.01	(9)	0.20	± 0.01	(10)	0.20	± 0.01	(10)	0.21	± 0.01	(10)	0.21	± 0.01	(10)
Relative (mg/g)	7.81	± 0.43	(9)	7.09	± 0.31	(10)	6.86	± 0.40	(10)	7.49	± 0.45	(10)	7.36	± 0.39	(10)
R. Ovary															
Absolute (g)	0.0124 ± 0.0010 (10) *			0.0105 ± 0.0007 (10)			0.0116 ± 0.0007 (10)			0.0105 ± 0.0006 (10)			0.0105 ± 0.0006 (10)		
Relative (mg/g)	0.44	± 0.03	(10)	0.36	± 0.03	(10)	0.40	± 0.03	(10)	0.38	± 0.03	(10)	0.37	± 0.03	(10)
L. Ovary															
Absolute (g)	0.0122 ± 0.0008 (9)			0.0096 ± 0.0006 (10)			0.0112 ± 0.0006 (10)			0.0100 ± 0.0008 (10)			0.0109 ± 0.0009 (10)		
Relative (mg/g)	0.45	± 0.03	(9)	0.33	± 0.02	(10)	0.39	± 0.03	(10)	0.37	± 0.04	(10)	0.38	± 0.03	(10)
Thymus															
Absolute (g)	0.050	± 0.003	(10)	0.056	± 0.002	(10)	0.055	± 0.002	(10)	0.048	± 0.003	(10)	0.052	± 0.004	(10)
Relative (mg/g)	1.83	± 0.10	(10)	1.94	± 0.09	(10)	1.90	± 0.06	(10)	1.70	± 0.09	(10)	1.81	± 0.12	(10)

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	<u>Treatment Groups (mg/L)</u>		
	335		
Terminal Body Wt.	25.3	± 0.6	(10)
Heart			
Absolute (g)	0.12	± 0.00	(10)
Relative (mg/g)	4.70	± 0.07	(10)
R. Kidney			
Absolute (g)	0.16	± 0.00	(10)
Relative (mg/g)	6.25	± 0.12	(10)
L. Kidney			
Absolute (g)	0.14	± 0.00	(10)
Relative (mg/g)	5.67	± 0.11	(10)
Liver			
Absolute (g)	1.14	± 0.03	(10)
Relative (mg/g)	45.00	± 0.63	(10) *
Lung			
Absolute (g)	0.20	± 0.01	(10)
Relative (mg/g)	7.77	± 0.27	(10)
R. Ovary			
Absolute (g)	0.0097	± 0.0007	(10) *
Relative (mg/g)	0.39	± 0.03	(10)
L. Ovary			
Absolute (g)	0.0114	± 0.0011	(10)
Relative (mg/g)	0.45	± 0.05	(10)
Thymus			
Absolute (g)	0.049	± 0.003	(10)
Relative (mg/g)	1.93	± 0.11	(10)

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LEGEND

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

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 Williams or Dunnett (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 $P \leq 0.01$

One value for L. Ovary weight in the 0 mg/L group was excluded because it was an outlier.

**** END OF REPORT ****