

**Study Number:** I94043  
**Test Type:** TOX  
**Route:** Dosing in Water  
**Species/Strain:** Mouse/B6C3F1/N

**PA06: Organ Weights Summary**  
**Test Compound:** Sodium Metavanadate  
**CAS Number:** 13718-26-8

**Date Report Requested:** 10/10/2022  
**Time Report Requested:** 07:26:00  
**Lab:** Burleson Research Technologies

**Study Number:** I94043  
**Study Gender:** Female  
**PWG Approval Date:** See web page for date of PWG Approval  
**Version:** v1.4.2  
**Stat Version:** v2.9.1A

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**Females: Immunophenotyping**

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	<b>Treatment Groups (ppm)</b>				
	<b>0</b>	<b>31.3</b>	<b>62.5</b>	<b>125</b>	<b>250</b>
Terminal Body Wt. (g)	24.3 ± 0.4 (8) *	24.3 ± 0.7 (8)	23.8 ± 0.8 (8)	24.0 ± 0.4 (8)	22.9 ± 0.3 (8)
Spleen					
Absolute (g)	0.075 ± 0.001 (8) *	0.075 ± 0.003 (8)	0.074 ± 0.005 (8)	0.079 ± 0.003 (8)	0.085 ± 0.006 (8)
Relative (mg/g)	3.08 ± 0.05 (8) **	3.07 ± 0.08 (8)	3.09 ± 0.11 (8)	3.29 ± 0.08 (8)	3.72 ± 0.25 (8) **
Thymus					
Absolute (g)	0.052 ± 0.003 (8)	0.056 ± 0.002 (8)	0.062 ± 0.002 (8) *	0.058 ± 0.002 (8)	0.052 ± 0.002 (8)
Relative (mg/g)	2.14 ± 0.08 (8)	2.32 ± 0.11 (8)	2.60 ± 0.09 (8) **	2.41 ± 0.09 (8)	2.27 ± 0.09 (8)

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**Females: Immunophenotyping**

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	Treatment Groups (ppm)	
	500	50 mg/kg CPS
Terminal Body Wt. (g)	23.1 ± 0.3 (8)	24.2 ± 0.8 (8)
Spleen		
Absolute (g)	0.079 ± 0.001 (8)	0.046 ± 0.002 (8) **
Relative (mg/g)	3.42 ± 0.07 (8) **	1.93 ± 0.05 (8) **
Thymus		
Absolute (g)	0.055 ± 0.002 (8)	0.024 ± 0.003 (8) **
Relative (mg/g)	2.39 ± 0.09 (8)	1.01 ± 0.11 (8) **

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**Females: Immunopath**

	Treatment Groups (ppm)														
	0			31.3			62.5			125			250		
Terminal Body Wt. (g)	25.3	± 1.1	(7)	25.0	± 0.9	(8)	24.3	± 0.9	(8)	24.9	± 1.1	(8)	23.5	± 0.6	(8)
R. Adrenal gland															
Absolute (g)	0.0053 ± 0.0005 (8) *			0.0056 ± 0.0003 (8)			0.0055 ± 0.0005 (8)			0.0048 ± 0.0003 (8)			0.0046 ± 0.0003 (8)		
Relative (mg/g)	0.21 ± 0.02 (7) *			0.22 ± 0.01 (8)			0.22 ± 0.02 (8)			0.19 ± 0.01 (8)			0.20 ± 0.01 (8)		
R. Kidney															
Absolute (g)	0.18 ± 0.01 (8)			0.17 ± 0.01 (8)			0.17 ± 0.01 (8)			0.18 ± 0.01 (8)			0.17 ± 0.00 (8)		
Relative (mg/g)	6.95 ± 0.14 (7) **			6.69 ± 0.12 (8)			7.11 ± 0.24 (8)			7.26 ± 0.18 (8)			7.30 ± 0.10 (8)		
Liver															
Absolute (g)	1.25 ± 0.07 (7)			1.30 ± 0.05 (8)			1.32 ± 0.07 (8)			1.38 ± 0.07 (8)			1.31 ± 0.05 (8)		
Relative (mg/g)	50.38 ± 1.00 (6) **			51.86 ± 1.14 (8)			54.15 ± 1.17 (8)			55.49 ± 1.15 (8) *			55.68 ± 1.25 (8) *		
Spleen															
Absolute (g)	0.080 ± 0.004 (7)			0.083 ± 0.003 (8)			0.085 ± 0.008 (8)			0.086 ± 0.005 (8)			0.082 ± 0.003 (8)		
Relative (mg/g)	3.24 ± 0.10 (6) **			3.33 ± 0.09 (8)			3.49 ± 0.23 (8)			3.45 ± 0.11 (8)			3.50 ± 0.07 (8)		
Thymus															
Absolute (g)	0.060 ± 0.004 (8)			0.063 ± 0.003 (8)			0.056 ± 0.003 (8)			0.064 ± 0.004 (8)			0.056 ± 0.001 (7)		
Relative (mg/g)	2.46 ± 0.11 (7)			2.55 ± 0.15 (8)			2.29 ± 0.07 (8)			2.58 ± 0.11 (8)			2.40 ± 0.03 (7)		

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**Females: Immunopath**

	Treatment Groups (ppm)					
	500			50 mg/kg CPS		
Terminal Body Wt. (g)	23.2	± 0.8	(8)	23.7	± 1.2	(8)
R. Adrenal gland						
Absolute (g)	0.0044	± 0.0003	(8)	0.0053	± 0.0005	(8)
Relative (mg/g)	0.19	± 0.01	(8)	0.22	± 0.02	(8)
R. Kidney						
Absolute (g)	0.18	± 0.01	(8)	0.16	± 0.01	(8)
Relative (mg/g)	7.68	± 0.19	(8) **	6.78	± 0.14	(8)
Liver						
Absolute (g)	1.32	± 0.08	(8)	1.18	± 0.05	(8)
Relative (mg/g)	56.59	± 1.61	(8) **	49.95	± 0.98	(8)
Spleen						
Absolute (g)	0.088	± 0.004	(8)	0.046	± 0.002	(8) **
Relative (mg/g)	3.80	± 0.11	(8) *	1.97	± 0.09	(8) **
Thymus						
Absolute (g)	0.059	± 0.001	(8)	0.021	± 0.002	(8) **
Relative (mg/g)	2.55	± 0.09	(8)	0.91	± 0.09	(8) **

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**Females: SRBC**

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	<b>Treatment Groups (ppm)</b>				
	<b>0</b>	<b>31.3</b>	<b>62.5</b>	<b>125</b>	<b>250</b>
Terminal Body Wt. (g)	23.5 ± 0.5 (7) **	23.9 ± 0.4 (8)	23.8 ± 0.3 (8)	23.2 ± 0.3 (8)	22.8 ± 0.3 (8)
Spleen					
Absolute (g)	0.098 ± 0.004 (6)	0.108 ± 0.003 (8)	0.101 ± 0.004 (8)	0.109 ± 0.005 (8)	0.107 ± 0.004 (8)
Relative (mg/g)	4.16 ± 0.14 (6) **	4.52 ± 0.08 (8)	4.24 ± 0.13 (8)	4.71 ± 0.21 (8) *	4.69 ± 0.15 (8) *
Thymus					
Absolute (g)	0.053 ± 0.003 (7)	0.057 ± 0.002 (8)	0.058 ± 0.002 (8)	0.060 ± 0.003 (8)	0.058 ± 0.003 (8)
Relative (mg/g)	2.26 ± 0.13 (7) *	2.39 ± 0.09 (8)	2.43 ± 0.11 (8)	2.58 ± 0.13 (8)	2.53 ± 0.11 (8)

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**Females: SRBC**

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	Treatment Groups (ppm)	
	500	50 mg/kg CPS
Terminal Body Wt. (g)	22.0 ± 0.5 (8) **	23.2 ± 0.3 (7)
Spleen		
Absolute (g)	0.107 ± 0.006 (8)	0.053 ± 0.003 (7) **
Relative (mg/g)	4.86 ± 0.17 (8) **	2.27 ± 0.10 (7) **
Thymus		
Absolute (g)	0.059 ± 0.003 (8)	0.024 ± 0.002 (7) **
Relative (mg/g)	2.67 ± 0.11 (8)	1.04 ± 0.07 (7) **

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**Females: KLH**

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	<b>Treatment Groups (ppm)</b>				
	<b>0</b>	<b>31.3</b>	<b>62.5</b>	<b>125</b>	<b>250</b>
Terminal Body Wt. (g)	22.5 ± 0.9 (8)	22.1 ± 0.7 (8)	22.5 ± 0.5 (8)	22.7 ± 0.5 (8)	21.9 ± 0.5 (8)
Spleen					
Absolute (g)	0.075 ± 0.004 (8)	0.078 ± 0.006 (8)	0.086 ± 0.004 (8)	0.082 ± 0.005 (8)	0.076 ± 0.003 (8)
Relative (mg/g)	3.34 ± 0.09 (8)	3.49 ± 0.17 (8)	3.83 ± 0.13 (8)	3.60 ± 0.18 (8)	3.47 ± 0.18 (8)
Thymus					
Absolute (g)	0.057 ± 0.003 (8)	0.050 ± 0.003 (8)	0.053 ± 0.003 (8)	0.059 ± 0.002 (8)	0.047 ± 0.002 (8) *
Relative (mg/g)	2.51 ± 0.10 (8)	2.25 ± 0.10 (8)	2.38 ± 0.16 (8)	2.59 ± 0.06 (8)	2.16 ± 0.09 (8)

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**Females: KLH**

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	Treatment Groups (ppm)	
	500	50 mg/kg CPS
Terminal Body Wt. (g)	21.2 ± 0.3 (8)	20.9 ± 0.5 (8)
Spleen		
Absolute (g)	0.077 ± 0.002 (8)	0.082 ± 0.007 (8)
Relative (mg/g)	3.61 ± 0.10 (8)	3.91 ± 0.33 (8)
Thymus		
Absolute (g)	0.052 ± 0.001 (8)	0.016 ± 0.002 (8) **
Relative (mg/g)	2.47 ± 0.08 (8)	0.75 ± 0.10 (8) **

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**Females: CTL**

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	<b>Treatment Groups (ppm)</b>				
	<b>0</b>	<b>31.3</b>	<b>62.5</b>	<b>125</b>	<b>250</b>
Terminal Body Wt. (g)	17.4 ± 0.6 (8) *	18.5 ± 0.7 (8)	17.0 ± 0.6 (8)	17.8 ± 0.4 (8)	16.8 ± 0.4 (8)
Spleen					
Absolute (g)	0.089 ± 0.004 (8)	0.092 ± 0.004 (8)	0.086 ± 0.005 (8)	0.090 ± 0.003 (8)	0.082 ± 0.006 (8)
Relative (mg/g)	5.08 ± 0.12 (8)	4.98 ± 0.15 (8)	5.05 ± 0.20 (8)	5.04 ± 0.14 (8)	4.87 ± 0.31 (8)
Thymus					
Absolute (g)	0.024 ± 0.002 (8)	0.032 ± 0.004 (8)	0.031 ± 0.002 (8)	0.027 ± 0.003 (8)	0.026 ± 0.005 (8)
Relative (mg/g)	1.39 ± 0.09 (8)	1.71 ± 0.19 (8)	1.82 ± 0.14 (8)	1.51 ± 0.19 (8)	1.51 ± 0.30 (8)

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**Females: CTL**

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	Treatment Groups (ppm)	
	500	50 mg/kg CPS
Terminal Body Wt. (g)	16.4 ± 0.4 (8)	17.1 ± 0.4 (8)
Spleen		
Absolute (g)	0.083 ± 0.005 (8)	0.030 ± 0.001 (8) **
Relative (mg/g)	5.08 ± 0.26 (8)	1.74 ± 0.07 (8) **
Thymus		
Absolute (g)	0.027 ± 0.003 (8)	0.016 ± 0.003 (8) *
Relative (mg/g)	1.68 ± 0.19 (8)	0.92 ± 0.18 (8) *

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## LEGEND

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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 analysis for the positive control group compared to the vehicle control group was performed using the t-Test.

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 the spleen weight for the 0 ppm group was excluded because it was an outlier.

CPS = Cyclophosphamide

**\*\* END OF REPORT \*\***