

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

I04G: Mean Body Weight Gain
Test Compound: Sodium Metavanadate
CAS Number: 13718-26-8

Date Report Requested: 02/24/2023
Time Report Requested: 13:27:30
Lab: Burleson Research Technologies

Study Number: I94043
Study Gender: Female
PWG Approval Date: See web page for date of PWG Approval
Version: v1.4.3
Stat Version: v2.9.1A

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Females: Immunophenotyping

Phase	Days	Treatment Groups (ppm)											
		0		31.3		62.5		125		250		500	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
SD	0 - 7	0.9 ± 0.1 **	8	0.5 ± 0.2	8	0.8 ± 0.2	8	0.6 ± 0.2	8	0.3 ± 0.3	8	-1.5 ± 0.4 **	8
	7 - 14	1.0 ± 0.2	8	1.2 ± 0.3	8	1.0 ± 0.3	8	0.9 ± 0.2	8	0.6 ± 0.3	8	2.2 ± 0.6 *	8
	14 - 21	1.3 ± 0.4	8	0.7 ± 0.2	8	0.9 ± 0.3	8	1.1 ± 0.4	8	0.8 ± 0.4	8	0.7 ± 0.2	8
	21 - 28	0.7 ± 0.2	8	1.1 ± 0.4	8	0.5 ± 0.2	8	0.7 ± 0.5	8	0.8 ± 0.2	8	0.7 ± 0.3	8
	0 - 28	3.8 ± 0.3 **	8	3.4 ± 0.5	8	3.2 ± 0.7	8	3.3 ± 0.4	8	2.5 ± 0.3 *	8	2.2 ± 0.2 *	8

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Lab: Burleson Research Technologies

Females: Immunophenotyping

Phase	Days	Treatment Groups (ppm)	
		50 mg/kg CPS	
		Wt Gain (g)	N
SD	0 - 7	0.9 ± 0.3	8
	7 - 14	1.1 ± 0.5	8
	14 - 21	1.4 ± 0.5	8
	21 - 28	0.1 ± 0.4	8
	0 - 28	3.5 ± 0.5	8

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Females: Immunopath

Treatment Groups (ppm)

Phase	Days	0		31.3		62.5		125		250		500	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
SD	0 - 7	0.9 ± 0.2 **	8	1.4 ± 0.3	8	0.8 ± 0.2	8	0.5 ± 0.4	8	0.1 ± 0.3	8	-1.7 ± 0.4 **	8
	7 - 14	1.3 ± 0.2	8	1.1 ± 0.3	8	0.9 ± 0.1	8	1.1 ± 0.3	8	0.7 ± 0.3	8	2.5 ± 0.4 *	8
	14 - 21	1.0 ± 0.3 *	8	1.0 ± 0.2	8	0.8 ± 0.2	8	1.2 ± 0.3	8	0.7 ± 0.3	8	0.3 ± 0.2	8
	21 - 28	0.6 ± 0.5	7	0.8 ± 0.3	8	1.0 ± 0.4	8	0.2 ± 0.5	8	0.5 ± 0.2	8	0.9 ± 0.5	8
	0 - 28	3.6 ± 0.5 **	7	4.2 ± 0.6	8	3.5 ± 0.5	8	3.0 ± 0.7	8	2.1 ± 0.2	8	2.0 ± 0.4 *	8

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Females: Immunopath

Phase	Days	Treatment Groups (ppm)	
		50 mg/kg CPS	
		Wt Gain (g)	N
SD	0 - 7	0.9 ± 0.2	8
	7 - 14	1.4 ± 0.2	8
	14 - 21	0.8 ± 0.4	8
	21 - 28	-1.1 ± 0.3 *	8
	0 - 28	2.0 ± 0.6	8

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Lab: Burleson Research Technologies

Females: SRBC

Treatment Groups (ppm)

Phase	Days	0		31.3		62.5		125		250		500	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
SD	0 - 7	0.4 ± 0.1 **	7	0.4 ± 0.1	8	0.6 ± 0.2	8	0.0 ± 0.2	8	-0.2 ± 0.2	8	-1.4 ± 0.4 **	8
	7 - 14	1.1 ± 0.2	7	1.4 ± 0.3	8	1.1 ± 0.1	8	1.0 ± 0.2	8	0.4 ± 0.2	8	1.5 ± 0.4	8
	14 - 21	1.1 ± 0.3	7	0.8 ± 0.3	8	1.2 ± 0.1	8	1.3 ± 0.3	8	1.3 ± 0.3	8	1.1 ± 0.2	8
	21 - 28	0.1 ± 0.4	7	0.5 ± 0.2	8	0.6 ± 0.2	8	0.0 ± 0.4	8	0.4 ± 0.3	8	0.4 ± 0.2	8
	0 - 28	2.7 ± 0.3 **	7	3.2 ± 0.3	8	3.4 ± 0.2	8	2.4 ± 0.3	8	1.9 ± 0.3	8	1.7 ± 0.3 *	8

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Females: SRBC

Phase	Days	Treatment Groups (ppm)	
		50 mg/kg CPS	
		Wt Gain (g)	N
SD	0 - 7	0.9 ± 0.3	8
	7 - 14	0.9 ± 0.1	8
	14 - 21	1.5 ± 0.2	8
	21 - 28	-0.5 ± 0.2	7
	0 - 28	2.7 ± 0.3	7

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Lab: Burleson Research Technologies

Females: KLH

Treatment Groups (ppm)

Phase	Days	0		31.3		62.5		125		250		500	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
SD	0 - 7	0.6 ± 0.3 **	8	0.8 ± 0.2	8	0.8 ± 0.2	8	0.7 ± 0.2	8	0.3 ± 0.2	8	-0.1 ± 0.2 *	8
	7 - 14	0.5 ± 0.2	8	0.2 ± 0.1	8	1.0 ± 0.2	8	0.7 ± 0.1	8	0.7 ± 0.4	8	0.4 ± 0.2	8
	14 - 21	0.5 ± 0.1	8	0.6 ± 0.2	8	0.2 ± 0.3	8	0.6 ± 0.1	8	0.4 ± 0.3	8	0.7 ± 0.2	8
	21 - 28	0.3 ± 0.3	8	0.7 ± 0.2	8	0.6 ± 0.4	8	0.5 ± 0.2	8	0.4 ± 0.3	8	0.1 ± 0.3	8
	0 - 28	1.9 ± 0.5	8	2.3 ± 0.5	8	2.6 ± 0.4	8	2.4 ± 0.3	8	1.7 ± 0.2	8	1.0 ± 0.3	8

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Females: KLH

Phase	Days	Treatment Groups (ppm)	
		50 mg/kg CPS	
		Wt Gain (g)	N
SD	0 - 7	1.1 ± 0.3	8
	7 - 14	0.5 ± 0.2	8
	14 - 21	-1.2 ± 0.1 **	8
	21 - 28	0.4 ± 0.2	8
	0 - 28	0.8 ± 0.3	8

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Females: CTL

Treatment Groups (ppm)

Phase	Days	0		31.3		62.5		125		250		500	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
SD	0 - 7	1.1 ± 0.2 **	8	0.8 ± 0.5	8	0.7 ± 0.1	8	0.8 ± 0.1	8	0.2 ± 0.2 *	8	-0.5 ± 0.3 **	8
	7 - 14	0.4 ± 0.3	8	0.4 ± 0.6	8	0.6 ± 0.3	8	0.4 ± 0.2	8	0.7 ± 0.2	8	1.0 ± 0.3	8
	14 - 21	0.6 ± 0.4 *	8	0.9 ± 0.3	8	0.5 ± 0.1	8	0.6 ± 0.2	8	0.5 ± 0.2	8	-0.2 ± 0.2	8
	21 - 28	-5.4 ± 0.2	8	-4.5 ± 0.6	8	-5.4 ± 0.2	8	-4.5 ± 0.5	8	-5.3 ± 0.3	8	-4.5 ± 0.4	8
	0 - 28	-3.4 ± 0.3 *	8	-2.4 ± 0.6	8	-3.6 ± 0.3	8	-2.7 ± 0.3	8	-3.9 ± 0.4	8	-4.2 ± 0.3	8

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Females: CTL

Phase	Days	Treatment Groups (ppm)	
		50 mg/kg CPS	
		Wt Gain (g)	N
SD	0 - 7	0.6 ± 0.3	8
	7 - 14	0.5 ± 0.2	8
	14 - 21	0.8 ± 0.2	8
	21 - 28	-5.6 ± 0.3	8
	0 - 28	-3.8 ± 0.3	8

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LEGEND

Data are displayed as mean \pm SEM

SD – Study Day

Statistical analysis of weight data 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 $P \leq 0.01$

CPS = Cyclophosphamide

**** END OF REPORT ****