

Study Number: C94043-03

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

Study Number:

Study Gender:

PWG Approval Date:

Version:

Stat Version:

I04G: Mean Body Weight Gain

Test Compound: Sodium Metavanadate

CAS Number: 13718-26-8

C94043-03

Both

See web page for date of PWG Approval

v1.2.9

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Date Report Requested: 08/04/2021

Time Report Requested: 07:52:50

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F0 Females

Treatment Groups (mg/L)

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
Gestation	6 - 9	11.4 ± 1.1 **	16	11.8 ± 2.5	14	9.9 ± 0.7	16	7.8 ± 1.6	16	4.9 ± 1.6 **	15	4.8 ± 1.2 **	16
	9 - 12	18.7 ± 0.7 **	16	20.0 ± 1.0	14	15.6 ± 0.8 *	16	13.4 ± 1.0 **	16	11.3 ± 0.8 **	15	12.3 ± 1.0 **	16
	12 - 15	18.5 ± 0.6	16	16.8 ± 1.4	14	19.8 ± 1.3	16	19.7 ± 1.6	16	18.5 ± 1.1	15	15.7 ± 1.5	16
	15 - 18	43.1 ± 1.3 **	16	38.8 ± 2.8	14	40.5 ± 2.9	16	39.7 ± 2.5	16	33.1 ± 4.3 *	15	35.8 ± 2.3 *	16
	18 - 21	51.2 ± 1.1 **	16	42.9 ± 3.6	14	46.8 ± 2.8	16	39.3 ± 4.4 *	16	37.3 ± 3.9 *	14	23.1 ± 5.7 **	16
	6 - 21	142.9 ± 2.5 **	16	130.4 ± 7.3	14	132.6 ± 6.7	16	119.7 ± 7.9 *	16	109.5 ± 5.9 **	14	91.6 ± 7.5 **	16
Lactation	1 - 4	14.7 ± 2.2 **	16	10.3 ± 2.4	14	16.7 ± 2.1	16	9.0 ± 2.8	14	5.6 ± 2.0	11	-23.6 ± 8.0 **	12
	4 - 7	7.0 ± 1.7	15	11.9 ± 2.4	12	6.5 ± 1.8	14	8.2 ± 3.0	14	11.1 ± 2.3	11	-1.0 ± 7.4	7
	7 - 10	8.5 ± 2.3 *	15	10.4 ± 1.7	12	9.3 ± 2.5	14	14.5 ± 3.7	14	13.6 ± 2.3	11	14.6 ± 4.7	6
	10 - 13	5.2 ± 3.2	15	2.0 ± 1.3	12	1.7 ± 2.7	14	9.0 ± 2.3	14	1.8 ± 2.6	11	0.3 ± 2.8	6
	13 - 16	-4.9 ± 3.2	15	4.1 ± 2.4	12	3.0 ± 3.6	14	-3.1 ± 2.0	14	2.2 ± 2.4	11	10.8 ± 3.5 **	6
	16 - 19	-2.4 ± 2.7	15	-4.3 ± 2.4	12	-4.8 ± 1.9	14	-0.8 ± 2.0	14	2.0 ± 3.1	11	-5.3 ± 15.7	6
	19 - 21	-4.6 ± 3.1	15	-5.0 ± 2.1	12	-4.7 ± 3.0	14	-7.5 ± 2.4	14	-12.6 ± 3.8	11	-13.7 ± 4.7	5
	21 - 25	-20.9 ± 2.5 *	15	-21.4 ± 2.0	12	-21.4 ± 2.2	14	-18.9 ± 3.4	14	-8.9 ± 3.6	11	-26.4 ± 15.2	5
	25 - 28	-1.6 ± 1.4	15	-2.5 ± 2.4	12	-5.8 ± 1.9	14	-3.2 ± 2.1	14	-2.7 ± 1.9	11	3.3 ± 6.6	4
	4 - 28	-13.7 ± 3.4 **	15	-4.8 ± 3.1	12	-16.3 ± 2.2	14	-1.9 ± 3.2 *	14	6.6 ± 4.8 **	11	23.2 ± 2.3 **	4
1 - 28	0.6 ± 3.2 **	15	5.3 ± 2.9	12	1.1 ± 3.2	14	7.1 ± 3.5	14	12.2 ± 3.8 *	11	18.9 ± 4.4 **	4	

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Lab: Battelle

F1 Males: All F1 Animals

Treatment Groups (mg/L)

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
PND	28 - 35	37.0 ± 1.6 **	15 (12)	37.7 ± 1.2	15 (11)	39.7 ± 1.6	15 (12)	35.7 ± 0.9	15 (11)	34.9 ± 1.1	15 (10)	19.7 ± 2.2 **	12 (4)
	35 - 42	47.9 ± 1.5 **	15 (12)	46.6 ± 1.5	15 (11)	48.4 ± 1.4	15 (12)	45.9 ± 1.6	15 (11)	42.6 ± 1.0	15 (10)	32.5 ± 4.9 **	12 (4)
	42 - 49	49.8 ± 1.7 **	15 (12)	52.1 ± 1.1	15 (11)	51.0 ± 1.3	15 (12)	44.9 ± 1.1	15 (11)	46.9 ± 1.0	15 (10)	38.3 ± 5.1 **	12 (4)
	49 - 56	48.6 ± 1.6 **	15 (12)	48.0 ± 1.5	15 (11)	45.9 ± 1.3	15 (12)	42.8 ± 1.3 *	15 (11)	42.8 ± 0.9 *	15 (10)	38.1 ± 2.8 **	12 (4)
	56 - 63	40.1 ± 1.4 **	15 (12)	41.5 ± 1.4	15 (11)	39.4 ± 3.0	15 (12)	39.7 ± 1.7	15 (11)	36.1 ± 1.8	15 (10)	31.8 ± 2.4 *	12 (4)
	63 - 70	33.2 ± 1.5 **	15 (12)	28.2 ± 2.1	15 (11)	30.9 ± 2.2	15 (12)	27.1 ± 1.0	15 (11)	26.2 ± 1.2	15 (10)	25.6 ± 1.6 *	12 (4)
	70 - 77	24.2 ± 1.3 *	15 (12)	24.8 ± 1.2	15 (11)	23.9 ± 0.9	15 (12)	23.7 ± 1.0	15 (11)	23.8 ± 1.7	15 (10)	19.7 ± 1.5	12 (4)
	77 - 84	20.0 ± 1.4 **	15 (12)	20.8 ± 1.4	15 (11)	24.4 ± 1.2	15 (12)	17.9 ± 0.7	15 (11)	19.0 ± 0.7	15 (10)	16.1 ± 0.7	12 (4)
	84 - 91	17.5 ± 1.0	15 (12)	20.0 ± 0.9	15 (11)	16.2 ± 1.0	15 (12)	17.8 ± 1.0	15 (11)	18.1 ± 1.5	15 (10)	14.2 ± 1.5	12 (4)
	91 - 98	11.9 ± 0.8 *	15 (12)	10.2 ± 1.2	15 (11)	6.0 ± 1.0 *	15 (12)	10.5 ± 1.5	15 (11)	9.4 ± 1.1	15 (10)	6.6 ± 1.9 *	12 (4)
	98 - 105	14.6 ± 2.4 *	15 (12)	10.8 ± 1.0	15 (11)	10.2 ± 1.9	15 (12)	8.9 ± 0.7	15 (11)	7.1 ± 1.8 *	15 (10)	7.6 ± 2.2	12 (4)
	105 - 112	11.2 ± 2.6	15 (12)	9.6 ± 1.1	15 (11)	14.8 ± 2.1	15 (12)	9.1 ± 1.2	15 (11)	8.1 ± 2.3	15 (10)	8.9 ± 2.2	12 (4)
	28 - 112	356.1 ± 6.2 **	15 (12)	350.4 ± 6.7	15 (11)	350.8 ± 6.2	15 (12)	324.0 ± 7.3 **	15 (11)	315.1 ± 7.4 **	15 (10)	259.0 ± 13.8 **	12 (4)
	112 - 119	6.8 ± 1.2 *	10	5.3 ± 1.5	10	5.3 ± 0.8	10	2.7 ± 1.1	10	5.0 ± 2.0	10	2.9 ± 1.1	12
28 - 119	361.1 ± 6.8 **	10	353.8 ± 8.0	10	361.5 ± 6.6	10	330.5 ± 9.7 *	10	320.6 ± 8.5 **	10	257.2 ± 8.5 **	12	

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F1 Females: All F1 Animals

Phase	Days	Treatment Groups (mg/L)											
		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
PND	28 - 35	24.6 ± 3.5 **	15 (12)	25.2 ± 1.3	15 (11)	28.6 ± 1.2	15 (12)	27.4 ± 1.3	15 (11)	25.0 ± 1.2	15 (10)	15.9 ± 0.7 *	11 (3)
	35 - 42	34.0 ± 1.8 **	15 (12)	33.2 ± 1.0	15 (11)	30.8 ± 0.9	15 (12)	32.1 ± 1.1	15 (11)	30.1 ± 1.4	15 (10)	17.5 ± 5.8 **	11 (3)
	42 - 49	26.6 ± 1.2	15 (12)	26.7 ± 1.0	15 (11)	23.6 ± 1.0	15 (12)	25.0 ± 0.7	15 (11)	26.8 ± 1.2	15 (10)	22.7 ± 0.6	10 (3)
	49 - 56	21.2 ± 0.9	15 (12)	24.3 ± 0.9	15 (11)	22.4 ± 1.0	15 (12)	23.0 ± 1.6	15 (11)	23.6 ± 1.2	15 (10)	23.6 ± 1.2	10 (3)
	56 - 63	16.9 ± 1.0 *	15 (12)	19.4 ± 1.3	15 (11)	16.7 ± 0.9	15 (12)	16.1 ± 1.5	15 (11)	21.3 ± 0.8	15 (10)	21.5 ± 1.8	10 (3)
	63 - 70	11.2 ± 2.3	15 (12)	15.4 ± 1.1	15 (11)	15.2 ± 1.1	15 (12)	13.0 ± 1.5	15 (11)	14.2 ± 0.6	15 (10)	13.0 ± 1.0	10 (3)
	70 - 77	9.8 ± 1.6	15 (12)	13.7 ± 2.0	14 (10)	8.1 ± 1.0	15 (12)	9.5 ± 1.3	15 (11)	12.0 ± 2.0	15 (10)	12.1 ± 1.2	10 (3)
	77 - 84	8.6 ± 1.3	15 (12)	9.5 ± 2.8	14 (10)	7.6 ± 1.9	15 (12)	10.4 ± 1.6	15 (11)	6.7 ± 0.8	15 (10)	5.6 ± 0.9	10 (3)
	84 - 91	6.6 ± 1.7 *	15 (12)	9.4 ± 2.9	15 (11)	12.9 ± 2.4	15 (12)	10.7 ± 2.9	15 (11)	14.0 ± 1.4 *	15 (10)	14.2 ± 0.8	10 (3)
	91 - 98	7.0 ± 1.6	15 (12)	1.2 ± 4.2	14 (11)	-0.8 ± 2.0	15 (12)	0.9 ± 2.3	15 (11)	0.8 ± 1.5	15 (10)	0.6 ± 0.2	10 (3)
	98 - 105	4.8 ± 1.6	15 (12)	7.8 ± 4.4	14 (11)	3.5 ± 1.7	15 (12)	5.1 ± 1.4	15 (11)	2.6 ± 1.3	15 (10)	2.3 ± 0.5	10 (3)
	105 - 112	5.0 ± 1.9	15 (12)	3.4 ± 2.2	15 (11)	6.4 ± 1.1	15 (12)	3.5 ± 2.2	15 (11)	4.5 ± 0.7	15 (10)	4.8 ± 0.7	10 (3)
	28 - 112	176.2 ± 3.2 *	15 (12)	189.5 ± 4.6	15 (11)	175.0 ± 3.3	15 (12)	176.5 ± 6.2	15 (11)	181.7 ± 3.0	15 (10)	157.5 ± 0.7 *	10 (3)
	112 - 119	0.0 ± 2.1 *	10	2.4 ± 1.6	10	2.0 ± 2.1	10	4.8 ± 2.7	10	3.6 ± 1.3	10	4.9 ± 1.0	10
28 - 119	180.9 ± 2.0 *	10	192.9 ± 4.9	10	178.5 ± 4.4	10	183.0 ± 7.8	10	188.2 ± 4.4	10	162.2 ± 2.2 *	10	

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LEGEND

Data are displayed as mean \pm SEM

N is the number of animals (number of litters represented) for the F1 generation.

GD – Gestation Day; LD – Lactation Day; PND – Postnatal Day

In multigenerational studies, body weights reported for all animals until mating; pregnant animals only during gestation and lactation; all animals post-weaning.

For post-weaning F1 animals, All F1 Animals includes F1 Core and F1 Biosampling animals.

Statistical analysis of F0 data along with F1 PND119 and intervals bounded this PND119 were performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests.

Statistical analysis for the F1 generation except for F1 PND119 and intervals bounded by PND119 was performed using mixed models, with litter as a random effect for both trend and pairwise tests, and using Dunnett-Hsu adjustment for multiple comparisons.

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 F1 core female PND 77 body weight from the 31.3 mg/L group, and one F1 biosample female PND 98 body weight from the 31.3 mg/L group were excluded as outliers, along with the weight gain intervals bounded by these excluded weight values.

The final weighing day for F1 Biosample Animals (PND116 for females, PND117 for males) was not included in the analysis.

**** END OF REPORT ****