

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:

I07: Mean Water Consumption

Test Compound: Sodium Metavanadate

CAS Number: 13718-26-8

C94043-03

Both

See web page for date of PWG Approval

v1.3.2

S

Date Report Requested: 09/15/2021

Time Report Requested: 16:19:25

Lab: Battelle

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Lab: Battelle

F0 Females

Treatment Groups (mg/L)

Phase	Days	0			31.3			62.5		
		Wt (g/animal/day)	Wt (g/kg/day)	N	Wt (g/animal/day)	Wt (g/kg/day)	N	Wt (g/animal/day)	Wt (g/kg/day)	N
Gestation	6 - 9	32.8 ± 1.0 **	132.4 ± 3.9 **	16	31.9 ± 1.4	131.2 ± 6.0	14	31.7 ± 0.7	129.2 ± 3.1	16
	9 - 12	35.3 ± 1.1 **	134.5 ± 4.1 **	16	35.9 ± 1.5	138.5 ± 6.0	14	35.4 ± 1.1	137.0 ± 4.2	16
	12 - 15	37.6 ± 1.0 **	133.8 ± 3.8 **	16	37.5 ± 1.4	135.3 ± 5.8	13	36.1 ± 1.4	130.5 ± 4.5	16
	15 - 18	45.4 ± 1.1 **	145.4 ± 3.6 **	16	43.9 ± 1.8	143.8 ± 6.5	14	43.8 ± 1.8	142.7 ± 4.7	16
	18 - 21	48.0 ± 1.3 **	133.8 ± 3.8 **	16	46.4 ± 2.5	134.7 ± 8.1	14	45.1 ± 1.9	128.6 ± 4.2	16
	6 - 21	39.8 ± 1.0 **	134.6 ± 3.4 **	16	39.1 ± 1.6	135.5 ± 6.1	14	38.4 ± 1.3	132.1 ± 3.5	16
Lactation	1 - 4	49.2 ± 3.3 **	169.0 ± 11.2	16	47.7 ± 1.8	166.5 ± 6.5	13	52.2 ± 2.5	184.1 ± 9.1	16
	4 - 7	59.4 ± 1.5 **	197.1 ± 5.6	15	58.7 ± 1.7	197.2 ± 6.0	12	61.0 ± 1.0	206.0 ± 4.3	14
	7 - 10	69.8 ± 1.9 *	224.1 ± 6.9	14	70.6 ± 1.2	228.5 ± 3.9	12	70.8 ± 1.2	232.9 ± 5.3	14
	10 - 13	83.9 ± 2.9 **	265.5 ± 9.8 **	15	78.9 ± 1.7	250.7 ± 6.2	12	79.6 ± 2.3	257.3 ± 8.0	14
	1 - 13	65.4 ± 2.0 **	215.0 ± 6.7	15	64.3 ± 1.1	213.3 ± 4.3	12	66.7 ± 1.1	224.3 ± 4.8	14

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Lab: Battelle

F0 Females

Treatment Groups (mg/L)

Phase	Days	125			250			500		
		Wt (g/animal/day)	Wt (g/kg/day)	N	Wt (g/animal/day)	Wt (g/kg/day)	N	Wt (g/animal/day)	Wt (g/kg/day)	N
Gestation	6 - 9	27.5 ± 0.6 **	112.7 ± 2.6 **	16	23.5 ± 0.8 **	96.4 ± 2.9 **	15	19.2 ± 0.6 **	79.7 ± 2.9 **	16
	9 - 12	30.6 ± 1.1 **	119.7 ± 4.2 *	15	25.9 ± 1.5 **	102.9 ± 5.6 **	15	20.7 ± 0.5 **	82.8 ± 2.2 **	16
	12 - 15	32.5 ± 1.6 *	120.0 ± 6.2 *	16	26.9 ± 1.3 **	101.0 ± 4.8 **	15	21.1 ± 0.8 **	79.9 ± 2.9 **	16
	15 - 18	39.0 ± 1.7 **	129.7 ± 5.4 *	16	33.9 ± 1.5 **	116.2 ± 5.2 **	15	29.5 ± 0.9 **	101.6 ± 2.6 **	15
	18 - 21	40.3 ± 1.8 **	118.5 ± 5.4 *	16	32.9 ± 2.5 **	99.8 ± 7.4 **	15	26.7 ± 1.6 **	83.5 ± 4.7 **	16
	6 - 21	34.1 ± 1.2 **	119.6 ± 4.4 *	16	28.6 ± 1.2 **	102.7 ± 4.2 **	15	23.3 ± 0.7 **	84.7 ± 2.6 **	16
Lactation	1 - 4	54.1 ± 2.0	196.6 ± 7.8	14	45.6 ± 2.4	172.0 ± 9.5	11	26.4 ± 4.6 **	107.4 ± 16.4 *	12
	4 - 7	55.8 ± 1.6	197.3 ± 7.2	14	52.4 ± 2.7	191.9 ± 11.1	11	40.5 ± 7.1 **	156.0 ± 27.1	7
	7 - 10	67.1 ± 1.9	227.3 ± 6.7	14	60.3 ± 3.7	211.3 ± 13.9	11	64.2 ± 3.8	236.2 ± 13.6	6
	10 - 13	73.6 ± 1.1 **	240.0 ± 4.3	14	65.2 ± 3.4 **	221.6 ± 11.7	11	63.4 ± 5.7 **	228.0 ± 22.3	6
	1 - 13	62.7 ± 1.1	215.9 ± 5.1	14	55.9 ± 2.8 **	200.0 ± 10.7	11	53.4 ± 4.0 **	199.1 ± 15.4	6

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Lab: Battelle

F1 Males: All F1 Animals

Treatment Groups (mg/L)

Phase	Days	0			31.3			62.5		
		Wt (g/animal/day)	Wt (g/kg/day)	N	Wt (g/animal/day)	Wt (g/kg/day)	N	Wt (g/animal/day)	Wt (g/kg/day)	N
Postnatal	28 - 35	17.2 ± 0.5 **	147.0 ± 3.9 *	8	17.2 ± 0.8	146.2 ± 4.9	9	19.4 ± 0.5	161.0 ± 4.1	7
	35 - 42	26.6 ± 0.8 **	166.9 ± 5.2 **	8	28.0 ± 1.0	174.5 ± 4.7	9	28.1 ± 0.8	172.5 ± 3.6	8
	42 - 49	30.7 ± 0.9 **	146.9 ± 3.8 **	8	32.4 ± 1.3	154.6 ± 5.6	9	30.7 ± 0.7	144.6 ± 3.5	8
	49 - 56	31.5 ± 1.0 **	121.6 ± 3.1 **	8	33.3 ± 1.0	128.0 ± 2.7	9	31.8 ± 1.0	122.0 ± 4.3	8
	56 - 63	30.6 ± 0.7 **	100.5 ± 1.4 **	8	31.9 ± 0.7	104.5 ± 2.2	9	31.4 ± 0.8	103.8 ± 2.9	8
	63 - 70	30.7 ± 1.2 **	90.0 ± 2.7 **	8	30.9 ± 0.7	90.8 ± 1.9	9	30.2 ± 0.8	89.7 ± 2.8	8
	70 - 77	29.6 ± 1.2 **	79.9 ± 2.5 **	8	29.4 ± 0.7	80.0 ± 1.2	9	28.4 ± 0.6	78.0 ± 2.0	8
	77 - 84	29.1 ± 1.5 **	74.0 ± 3.1 **	8	28.8 ± 0.4	73.7 ± 1.0	9	28.6 ± 0.6	73.7 ± 1.2	8
	84 - 91	27.8 ± 1.2 **	67.5 ± 2.4 **	8	27.2 ± 1.0	66.0 ± 1.8	9	27.3 ± 0.8	67.0 ± 1.8	8
	91 - 98	26.9 ± 1.4 **	63.0 ± 2.5 **	8	27.5 ± 0.5	64.3 ± 1.2	9	26.6 ± 0.8	63.4 ± 1.1	8
	98 - 105	25.2 ± 1.1 **	57.4 ± 2.0 **	8	28.2 ± 0.8	64.3 ± 1.3	9	25.2 ± 1.0	58.8 ± 1.6	8
	105 - 112	25.8 ± 1.2 **	57.2 ± 2.1 **	8	28.0 ± 0.9	62.3 ± 1.4	9	26.1 ± 1.0	59.4 ± 1.6	8
	28 - 112	27.6 ± 0.9 **	86.4 ± 2.1 **	8	28.5 ± 0.6	89.3 ± 1.3	9	27.9 ± 0.6	88.2 ± 1.5	8
112 - 119	25.7 ± 1.7 **	56.3 ± 3.2 **	5	27.0 ± 0.9	59.6 ± 1.9	6	26.2 ± 1.1	57.0 ± 1.6	5	

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Lab: Battelle

F1 Males: All F1 Animals

Treatment Groups (mg/L)

Phase	Days	125			250			500		
		Wt (g/animal/day)	Wt (g/kg/day)	N	Wt (g/animal/day)	Wt (g/kg/day)	N	Wt (g/animal/day)	Wt (g/kg/day)	N
Postnatal	28 - 35	17.6 ± 1.1	159.1 ± 7.6	9	15.8 ± 0.4	143.3 ± 2.6	8	9.8 ± 0.7 **	111.5 ± 6.1 *	7
	35 - 42	26.2 ± 1.5	173.4 ± 8.7	9	22.4 ± 0.8 *	150.7 ± 5.2	8	14.1 ± 0.7 **	126.4 ± 2.1 **	7
	42 - 49	27.8 ± 1.2	141.9 ± 5.7	9	23.7 ± 0.6 **	123.4 ± 4.1 **	8	16.2 ± 1.0 **	112.2 ± 2.6 **	7
	49 - 56	29.4 ± 1.2	122.4 ± 4.7	9	26.0 ± 0.6 **	109.4 ± 3.2 *	8	18.4 ± 1.0 **	101.7 ± 2.6 **	7
	56 - 63	29.1 ± 0.9	103.3 ± 2.6	9	25.4 ± 0.8 **	91.3 ± 2.8	8	19.6 ± 1.0 **	91.3 ± 2.6 *	7
	63 - 70	28.4 ± 1.0	90.1 ± 2.9	9	24.5 ± 0.9 **	79.3 ± 2.9 *	8	20.0 ± 1.0 **	82.4 ± 3.4 *	7
	70 - 77	27.4 ± 1.0	80.5 ± 2.7	9	24.1 ± 0.9 **	71.7 ± 2.4	8	19.1 ± 0.8 **	71.8 ± 2.5	7
	77 - 84	26.3 ± 0.7 *	72.8 ± 1.6	9	22.9 ± 0.8 **	64.1 ± 1.9 **	8	18.0 ± 0.8 **	63.2 ± 1.6 **	7
	84 - 91	24.4 ± 1.0 *	64.5 ± 2.2	9	21.6 ± 0.7 **	57.4 ± 1.4 **	8	17.1 ± 0.7 **	56.9 ± 0.9 **	7
	91 - 98	25.2 ± 0.8	64.2 ± 1.7	9	22.3 ± 0.5 **	57.0 ± 0.8 *	8	17.2 ± 0.8 **	55.1 ± 1.6 *	7
	98 - 105	23.7 ± 0.7	59.0 ± 1.6	9	20.5 ± 0.6 **	51.3 ± 1.0 *	8	15.7 ± 0.8 **	49.2 ± 1.3 *	7
	105 - 112	22.8 ± 0.6 *	55.6 ± 1.5	9	20.1 ± 0.7 **	49.5 ± 1.2	8	15.7 ± 0.6 **	47.8 ± 1.3 *	7
	28 - 112	25.7 ± 0.9	87.1 ± 2.6	9	22.4 ± 0.6 **	76.9 ± 1.8 *	8	16.7 ± 0.7 **	72.4 ± 1.3 **	7
	112 - 119	23.8 ± 0.9	56.5 ± 2.3	6	18.7 ± 0.9 **	45.5 ± 1.7 *	5	15.0 ± 0.7 **	44.8 ± 0.8 **	7

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Lab: Battelle

F1 Females: All F1 Animals

Treatment Groups (mg/L)

Phase	Days	0			31.3			62.5		
		Wt (g/animal/day)	Wt (g/kg/day)	N	Wt (g/animal/day)	Wt (g/kg/day)	N	Wt (g/animal/day)	Wt (g/kg/day)	N
Postnatal	28 - 35	13.0 ± 1.9 *	133.9 ± 14.8	5	15.4 ± 1.5	151.2 ± 13.8	6	15.6 ± 0.4	151.7 ± 4.4	5
	35 - 42	20.9 ± 1.1 **	169.5 ± 4.5 **	5	20.6 ± 2.1	156.0 ± 13.6	6	24.1 ± 0.9	181.7 ± 6.2	5
	42 - 49	22.5 ± 0.5 **	146.5 ± 2.1 *	5	21.6 ± 2.1	133.5 ± 11.4	6	22.4 ± 1.2	140.5 ± 9.3	5
	49 - 56	22.5 ± 0.6 **	126.8 ± 3.2 **	5	22.6 ± 2.3	120.7 ± 10.6	6	22.4 ± 1.0	123.3 ± 6.4	5
	56 - 63	22.6 ± 0.9 **	114.5 ± 1.9 **	5	23.7 ± 2.2	113.7 ± 10.4	6	22.3 ± 0.3	110.5 ± 2.2	5
	63 - 70	22.3 ± 1.4 **	105.5 ± 4.2 **	5	23.0 ± 2.0	102.2 ± 8.1	6	22.5 ± 0.9	103.4 ± 3.8	5
	70 - 77	21.0 ± 1.3 **	94.8 ± 3.7 **	5	22.3 ± 2.0	92.3 ± 7.9	6	21.9 ± 1.0	95.7 ± 3.7	5
	77 - 84	20.1 ± 1.4 **	87.0 ± 4.5 **	5	23.2 ± 1.5	91.8 ± 5.5	6	20.9 ± 1.1	88.4 ± 4.1	5
	84 - 91	20.8 ± 1.0 **	87.4 ± 2.8 **	5	21.5 ± 1.2	82.5 ± 4.8	6	20.7 ± 1.8	84.0 ± 6.7	5
	91 - 98	21.5 ± 0.8 **	88.0 ± 2.2 **	5	23.3 ± 2.0	84.2 ± 8.3	6	20.4 ± 0.7	80.9 ± 2.0	5
	98 - 105	21.3 ± 0.9 **	85.2 ± 3.4 **	5	21.9 ± 2.1	77.7 ± 7.7	6	19.5 ± 1.1	76.5 ± 3.8	5
	105 - 112	21.8 ± 1.1 **	85.6 ± 5.9 **	5	21.8 ± 1.6	78.8 ± 5.2	6	20.3 ± 0.9	78.4 ± 2.7	5
	28 - 112	20.9 ± 0.8 **	105.5 ± 1.6 **	5	21.8 ± 1.6	101.3 ± 7.2	6	21.1 ± 0.7	103.5 ± 3.3	5
112 - 119	20.8 ± 0.5 **	78.2 ± 2.1 **	3	22.7 ± 2.7	80.3 ± 9.0	4	20.5 ± 1.7	76.8 ± 5.4	3	

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F1 Females: All F1 Animals

Treatment Groups (mg/L)

Phase	Days	125			250			500		
		Wt (g/animal/day)	Wt (g/kg/day)	N	Wt (g/animal/day)	Wt (g/kg/day)	N	Wt (g/animal/day)	Wt (g/kg/day)	N
Postnatal	28 - 35	14.5 ± 0.8	149.8 ± 7.3	8	13.7 ± 0.4	142.2 ± 2.5	5	9.7 ± 0.8	119.5 ± 8.5	4
	35 - 42	21.1 ± 0.7	167.1 ± 4.5	8	18.2 ± 0.9	146.4 ± 6.1 *	5	11.8 ± 0.8 *	121.0 ± 5.2 **	4
	42 - 49	22.1 ± 0.7	142.7 ± 3.2	8	19.2 ± 1.0 *	125.4 ± 5.7	5	13.6 ± 0.7 **	110.9 ± 4.6 *	4
	49 - 56	21.2 ± 0.7	118.6 ± 1.5	8	19.0 ± 0.6 *	106.3 ± 3.3 **	5	14.9 ± 1.2 **	101.6 ± 7.2 **	4
	56 - 63	21.8 ± 0.8	109.5 ± 2.9	8	17.9 ± 0.9 **	88.8 ± 3.8 **	5	15.4 ± 1.1 **	91.1 ± 6.3 **	4
	63 - 70	21.6 ± 1.3	101.0 ± 3.8	8	18.1 ± 0.8 *	82.6 ± 3.5 **	5	15.0 ± 1.1 **	80.7 ± 5.9 **	4
	70 - 77	20.8 ± 1.0	92.8 ± 2.9	8	18.4 ± 0.8	79.2 ± 3.3 *	5	14.4 ± 1.0 *	72.6 ± 4.9 *	4
	77 - 84	20.3 ± 1.4	86.0 ± 3.4	8	17.5 ± 0.9	72.8 ± 3.7 *	5	13.4 ± 0.9 *	64.6 ± 4.1 *	4
	84 - 91	20.3 ± 1.2	82.9 ± 4.0	8	17.5 ± 0.8	69.6 ± 3.4 *	5	13.1 ± 0.8 **	60.5 ± 3.5 **	4
	91 - 98	20.3 ± 0.8	81.4 ± 2.4	8	17.8 ± 0.7 *	68.6 ± 3.0 **	5	13.6 ± 1.1 **	60.4 ± 4.2 **	4
	98 - 105	20.1 ± 1.0	79.4 ± 2.9	8	16.3 ± 0.7 **	62.3 ± 2.7 **	5	12.4 ± 0.9 **	54.8 ± 3.9 **	4
	105 - 112	20.5 ± 1.0	79.6 ± 2.4	8	16.2 ± 0.8 **	61.3 ± 3.1 **	5	12.6 ± 0.8 **	54.7 ± 3.3 **	4
	28 - 112	20.4 ± 0.8	101.7 ± 2.3	8	17.5 ± 0.7 **	85.4 ± 3.4 **	5	13.2 ± 0.8 **	75.8 ± 4.4 **	4
112 - 119	20.1 ± 1.5	76.6 ± 3.2	6	15.0 ± 0.8	55.4 ± 2.8 *	3	12.7 ± 0.9 *	54.1 ± 3.9 *	4	

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LEGEND

Reported as the mean \pm SEM. N is the number of animals, or number of cages for group housed adult animals.

Water consumption values were excluded when excessive spillage was recorded.

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

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (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 $P \leq 0.01$

Consumption is not reported for the non-pregnant animals during gestation and lactation phases

Consumption is not reported for animals during mating

One F1 Core male cage from the 62.5 mg/L group for PND 28-35 and one female animal from the 31.3 mg/L group for LD 1-4 were excluded from analysis as outliers.

The 500 mg/L group for the F1 Core animals contained multiple animals per litter, but all other groups contained only one animal per sex per litter. Litter-based methods were not used in the analysis of the F1 Core animals.

**** END OF REPORT ****