

Study Number: C94043-03

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

R19: Pup Mean Body Weight Summary

Test Compound: Sodium Metavanadate

CAS Number: 13718-26-8

Date Report Requested: 07/30/2021

Time Report Requested: 09:47:12

Lab: Battelle

Study Number:

C94043-03

Study Gender:

Both

PWG Approval Date:

See web page for date of PWG Approval

Version:

v1.2.8

Stat Version:

S

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F1 Males

Treatment Groups (mg/L)

Phase Day	0		31.3			62.5			125		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.54 ± 0.07 *	81 (16)	7.57 ± 0.19	100.45	68 (14)	7.57 ± 0.12	100.34	93 (16)	7.27 ± 0.16	96.44	98 (15)
PND4	10.91 ± 0.11 **	81 (16)	10.83 ± 0.29	99.25	67 (14)	10.70 ± 0.21	98.07	93 (16)	10.88 ± 0.25	99.69	95 (14)
PND7	17.70 ± 0.28 **	57 (15)	17.45 ± 0.52	98.62	44 (12)	17.49 ± 0.48	98.84	52 (14)	16.71 ± 0.44	94.45	56 (14)
PND10	25.25 ± 0.42 **	57 (15)	24.97 ± 0.60	98.92	44 (12)	25.36 ± 0.54	100.44	52 (14)	23.88 ± 0.49	94.60	56 (14)
PND13	33.12 ± 0.50 **	57 (15)	32.57 ± 0.59	98.35	44 (12)	33.05 ± 0.56	99.80	52 (14)	30.76 ± 0.48 **	92.89	56 (14)
PND16	40.50 ± 0.59 **	57 (15)	39.96 ± 0.70	98.67	44 (12)	39.75 ± 0.65	98.15	52 (14)	37.33 ± 0.56 **	92.19	56 (14)
PND19	51.27 ± 0.68 **	57 (15)	50.39 ± 1.33	98.27	44 (12)	50.23 ± 0.98	97.96	52 (14)	47.20 ± 0.88 **	92.05	56 (14)
PND21	60.96 ± 0.61 **	57 (15)	59.73 ± 1.43	97.98	44 (12)	60.00 ± 1.03	98.42	52 (14)	56.03 ± 0.92 **	91.91	56 (14)
PND25	79.18 ± 0.85 **	57 (15)	79.56 ± 1.58	100.47	44 (12)	78.69 ± 1.38	99.37	52 (14)	75.14 ± 1.03	94.89	56 (14)
PND28	97.60 ± 1.28 **	57 (15)	98.73 ± 1.98	101.16	44 (12)	97.31 ± 1.72	99.70	52 (14)	91.62 ± 1.34 *	93.87	56 (14)

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F1 Males

Phase Day	Treatment Groups (mg/L)					
	250			500		
	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.57 ± 0.16	100.45	76 (11)	6.83 ± 0.27 *	90.57	55 (12)
PND4	10.67 ± 0.18	97.82	76 (11)	8.34 ± 0.79 **	76.42	39 (9)
PND7	16.93 ± 0.39	95.68	46 (11)	13.90 ± 1.17 **	78.54	21 (7)
PND10	23.22 ± 0.40 *	91.98	46 (11)	21.16 ± 0.87 **	83.81	19 (6)
PND13	29.61 ± 0.46 **	89.42	46 (11)	26.44 ± 1.13 **	79.85	19 (6)
PND16	35.44 ± 0.67 **	87.51	46 (11)	31.31 ± 1.15 **	77.32	19 (6)
PND19	45.19 ± 0.69 **	88.13	45 (11)	38.66 ± 1.38 **	75.39	19 (6)
PND21	53.63 ± 0.86 **	87.98	45 (11)	45.84 ± 1.64 **	75.19	15 (5)
PND25	73.80 ± 0.99 *	93.20	45 (11)	63.27 ± 2.27 **	79.91	14 (5)
PND28	90.94 ± 1.16 *	93.18	45 (11)	77.34 ± 3.18 **	79.24	13 (4)

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F1 Females

Treatment Groups (mg/L)

Phase Day	0		31.3			62.5			125		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.13 ± 0.09	115 (16)	7.20 ± 0.14	101.00	80 (13)	7.25 ± 0.08	101.69	102 (15)	7.07 ± 0.11	99.19	93 (14)
PND4	10.18 ± 0.17 **	115 (16)	10.20 ± 0.24	100.11	80 (13)	10.37 ± 0.13	101.83	102 (15)	10.39 ± 0.22	102.05	92 (14)
PND7	16.55 ± 0.33 **	63 (15)	16.67 ± 0.41	100.72	52 (12)	16.79 ± 0.39	101.41	60 (14)	16.17 ± 0.38	97.68	55 (14)
PND10	23.72 ± 0.41 **	63 (15)	24.01 ± 0.43	101.23	52 (12)	24.53 ± 0.44	103.39	59 (14)	23.35 ± 0.43	98.41	55 (14)
PND13	31.30 ± 0.53 **	63 (15)	31.58 ± 0.39	100.88	52 (12)	32.15 ± 0.49	102.73	59 (14)	29.96 ± 0.50	95.71	55 (14)
PND16	38.24 ± 0.62 **	63 (15)	38.51 ± 0.42	100.70	52 (12)	38.47 ± 0.55	100.59	59 (14)	36.30 ± 0.58	94.94	55 (14)
PND19	47.85 ± 0.77 **	63 (15)	48.17 ± 0.83	100.67	52 (12)	47.68 ± 0.83	99.65	59 (14)	45.81 ± 0.84	95.73	55 (14)
PND21	56.34 ± 0.78 **	63 (15)	56.17 ± 0.97	99.71	52 (12)	56.59 ± 0.82	100.45	59 (14)	54.05 ± 0.82	95.94	55 (14)
PND25	71.80 ± 0.63 **	63 (15)	72.67 ± 1.24	101.20	52 (12)	72.11 ± 0.97	100.43	59 (14)	70.01 ± 0.93	97.50	55 (14)
PND28	85.99 ± 0.89 **	63 (15)	87.68 ± 1.50	101.96	52 (12)	87.47 ± 1.23	101.72	59 (14)	83.91 ± 1.19	97.58	55 (14)

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F1 Females

Phase Day	Treatment Groups (mg/L)					
	250			500		
	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.00 ± 0.14	98.14	48 (11)	6.53 ± 0.33 *	91.55	45 (11)
PND4	10.18 ± 0.14	99.91	46 (11)	8.37 ± 0.87 **	82.15	37 (8)
PND7	16.14 ± 0.30	97.52	36 (11)	14.12 ± 0.71 **	85.30	23 (6)
PND10	21.92 ± 0.29 *	92.42	36 (11)	20.23 ± 0.72 **	85.28	23 (6)
PND13	28.33 ± 0.33 **	90.50	35 (11)	25.54 ± 0.94 **	81.59	23 (6)
PND16	34.18 ± 0.44 **	89.37	35 (11)	30.33 ± 1.00 **	79.32	23 (6)
PND19	43.34 ± 0.62 **	90.57	35 (11)	36.65 ± 1.77 **	76.60	23 (6)
PND21	50.35 ± 0.80 **	89.37	35 (11)	45.51 ± 1.41 **	80.78	17 (5)
PND25	67.90 ± 0.91 *	94.56	35 (11)	58.87 ± 3.62 **	81.99	16 (5)
PND28	82.38 ± 1.58	95.80	35 (11)	66.99 ± 5.91 **	77.90	12 (4)

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F1 ALL

Treatment Groups (mg/L)

Phase Day	0		31.3			62.5			125		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.33 ± 0.08 *	196 (16)	7.42 ± 0.16	101.29	148 (14)	7.42 ± 0.09	101.27	195 (16)	7.12 ± 0.14	97.14	191 (15)
PND4	10.52 ± 0.14 **	196 (16)	10.57 ± 0.27	100.41	147 (14)	10.49 ± 0.16	99.70	195 (16)	10.62 ± 0.22	100.92	187 (14)
PND7	17.09 ± 0.28 **	120 (15)	17.04 ± 0.44	99.70	96 (12)	17.09 ± 0.41	100.00	112 (14)	16.42 ± 0.39	96.06	111 (14)
PND10	24.45 ± 0.38 **	120 (15)	24.47 ± 0.47	100.07	96 (12)	24.87 ± 0.47	101.72	111 (14)	23.59 ± 0.44	96.47	111 (14)
PND13	32.17 ± 0.49 **	120 (15)	32.05 ± 0.44	99.64	96 (12)	32.53 ± 0.49	101.13	111 (14)	30.37 ± 0.45 *	94.41	111 (14)
PND16	39.33 ± 0.58 **	120 (15)	39.19 ± 0.50	99.64	96 (12)	39.02 ± 0.56	99.23	111 (14)	36.82 ± 0.52 **	93.61	111 (14)
PND19	49.49 ± 0.65 **	120 (15)	49.21 ± 1.03	99.43	96 (12)	48.84 ± 0.84	98.69	111 (14)	46.48 ± 0.79 *	93.93	111 (14)
PND21	58.55 ± 0.61 **	120 (15)	57.80 ± 1.14	98.72	96 (12)	58.11 ± 0.85	99.25	111 (14)	55.01 ± 0.78 *	93.96	111 (14)
PND25	75.32 ± 0.54 **	120 (15)	75.80 ± 1.32	100.64	96 (12)	75.14 ± 1.08	99.76	111 (14)	72.56 ± 0.86	96.33	111 (14)
PND28	91.54 ± 0.92 **	120 (15)	92.78 ± 1.69	101.35	96 (12)	92.06 ± 1.37	100.56	111 (14)	87.76 ± 1.07	95.86	111 (14)

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Phase Day	Treatment Groups (mg/L)					
	250			500		
	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.34 ± 0.13	100.11	124 (11)	6.69 ± 0.28 *	91.32	100 (12)
PND4	10.47 ± 0.16	99.53	122 (11)	8.20 ± 0.80 **	77.97	76 (9)
PND7	16.59 ± 0.35	97.05	82 (11)	13.48 ± 1.14 **	78.85	44 (7)
PND10	22.67 ± 0.37 *	92.71	82 (11)	20.61 ± 0.75 **	84.29	42 (6)
PND13	29.07 ± 0.40 **	90.36	81 (11)	25.91 ± 0.99 **	80.54	42 (6)
PND16	34.93 ± 0.54 **	88.82	81 (11)	30.78 ± 1.05 **	78.28	42 (6)
PND19	44.37 ± 0.65 **	89.66	80 (11)	37.65 ± 1.45 **	76.07	42 (6)
PND21	52.23 ± 0.81 **	89.20	80 (11)	45.57 ± 1.42 **	77.83	32 (5)
PND25	71.25 ± 0.94 *	94.59	80 (11)	59.75 ± 3.22 **	79.32	30 (5)
PND28	87.02 ± 1.25	95.05	80 (11)	73.24 ± 2.94 **	80.00	25 (4)

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LEGEND

N = the number of pups (number of litters)

PND - Postnatal Day, pups pre-weaning

PND4 weights are precull if litters are culled on postnatal day 4.

Data are displayed as the means and standard errors of the litter means.

Mean and SE values for PND 1 are calculated from whole litter weights, not individual pup weights.

Pup weights are adjusted for covariate litter size for all postnatal days. Total live on PND 1 for day 1 to cull day, and number of live pups after culling for later weight days.

Statistical analysis of pup weights after PND 1 was performed using mixed effects models with litter as a random effect, and a Dunnett-Hsu adjustment for multiple pairwise comparisons.

Statistical analysis of PND 1 pup weights performed using 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 $P \leq 0.01$

**** END OF REPORT ****