

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:

I04: Mean Body Weight Summary

Test Compound: Sodium Metavanadate

CAS Number: 13718-26-8

C94043-03

Both

See web page for date of PWG Approval

v1.2.9

S

Date Report Requested: 08/04/2021

Time Report Requested: 07:52:17

Lab: Battelle

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Lab: Battelle

F0 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
GD6	242.1 ± 2.4	16		237.8 ± 3.1	98.3	14	240.7 ± 3.2	99.5	16	240.3 ± 3.1	99.3	16
GD9	253.5 ± 2.9 *	16		249.7 ± 3.8	98.5	14	250.6 ± 3.3	98.9	16	248.1 ± 3.3	97.9	16
GD12	272.2 ± 2.9 **	16		269.7 ± 3.6	99.1	14	266.3 ± 3.5	97.8	16	261.4 ± 3.3 *	96.1	16
GD15	290.7 ± 3.0 **	16		286.5 ± 3.7	98.6	14	286.0 ± 3.8	98.4	16	281.1 ± 4.0	96.7	16
GD18	333.8 ± 3.8 **	16		325.3 ± 5.5	97.4	14	326.5 ± 5.2	97.8	16	320.8 ± 5.6	96.1	16
GD21	385.0 ± 4.0 **	16		368.2 ± 7.9	95.6	14	373.3 ± 7.2	97.0	16	360.0 ± 8.6 *	93.5	16
LD1	282.9 ± 3.1 **	16		280.1 ± 4.0	99.0	14	275.4 ± 4.5	97.4	16	270.2 ± 4.4	95.5	15
LD4	297.6 ± 3.2 **	16		290.4 ± 3.8	97.6	14	292.1 ± 4.8	98.2	16	280.4 ± 5.0	94.2	14
LD7	305.5 ± 3.9 **	15		303.9 ± 4.2	99.5	12	300.1 ± 5.3	98.2	14	288.5 ± 4.1 *	94.4	14
LD10	314.0 ± 4.3 **	15		314.4 ± 4.5	100.1	12	309.4 ± 5.4	98.5	14	303.0 ± 4.9	96.5	14
LD13	319.2 ± 3.6 **	15		316.4 ± 4.2	99.1	12	311.2 ± 4.6	97.5	14	312.0 ± 5.4	97.7	14
LD16	314.3 ± 4.8 **	15		320.4 ± 4.5	101.9	12	314.1 ± 6.9	99.9	14	308.9 ± 4.0	98.3	14
LD19	311.9 ± 5.1 **	15		316.2 ± 5.1	101.4	12	309.3 ± 7.1	99.2	14	308.1 ± 4.3	98.8	14
LD21	307.3 ± 3.1 **	15		311.2 ± 5.2	101.3	12	304.6 ± 6.2	99.1	14	300.6 ± 3.8	97.8	14
LD25	286.4 ± 3.8 *	15		289.8 ± 4.2	101.2	12	283.2 ± 5.8	98.9	14	281.7 ± 4.7	98.3	14
LD28	284.8 ± 4.1	15		287.3 ± 5.4	100.9	12	277.4 ± 5.9	97.4	14	278.5 ± 4.7	97.8	14

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I04: Mean Body Weight Summary

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Lab: Battelle

F0 Females

Phase Day	Treatment Groups (mg/L)					
	250			500		
	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
GD6	240.9 ± 3.6	99.5	15	239.2 ± 3.1	98.8	16
GD9	245.8 ± 3.0	97.0	15	243.9 ± 2.5	96.2	16
GD12	257.1 ± 2.9 **	94.5	15	256.2 ± 2.4 **	94.1	16
GD15	275.6 ± 3.2 **	94.8	15	271.9 ± 2.8 **	93.5	16
GD18	308.7 ± 4.8 **	92.5	15	307.7 ± 4.0 **	92.2	16
GD21	348.9 ± 5.3 **	90.6	14	330.8 ± 6.6 **	85.9	16
LD1	263.1 ± 3.3 **	93.0	11	243.8 ± 7.5 **	86.2	12
LD4	268.7 ± 3.9 **	90.3	11	220.2 ± 13.6 **	74.0	12
LD7	279.8 ± 4.5 **	91.6	11	250.6 ± 14.1 **	82.0	7
LD10	293.4 ± 3.8 **	93.4	11	278.9 ± 6.2 **	88.8	6
LD13	295.3 ± 2.8 **	92.5	11	279.2 ± 4.6 **	87.5	6
LD16	297.5 ± 4.1 *	94.7	11	290.0 ± 7.8 **	92.3	6
LD19	299.5 ± 5.4	96.0	11	284.7 ± 11.3 **	91.3	6
LD21	287.0 ± 4.4 **	93.4	11	279.1 ± 11.0 **	90.8	5
LD25	278.1 ± 3.5	97.1	11	252.7 ± 23.4 **	88.2	5
LD28	275.3 ± 4.6	96.7	11	278.8 ± 6.2	97.9	4

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I04: Mean Body Weight Summary

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Lab: Battelle

F1 Males: All F1 Animals

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
PND28	96.9 ± 1.7 **	15 (12)		99.3 ± 2.1	102.4	15 (11)	98.4 ± 1.9	101.5	15 (12)	92.5 ± 1.6	95.4	15 (11)
PND35	134.0 ± 2.3 **	15 (12)		137.0 ± 2.6	102.2	15 (11)	138.1 ± 2.9	103.1	15 (12)	128.2 ± 1.9	95.7	15 (11)
PND42	181.9 ± 2.5 **	15 (12)		183.6 ± 3.3	100.9	15 (11)	186.5 ± 3.5	102.6	15 (12)	174.1 ± 3.1	95.7	15 (11)
PND49	231.6 ± 3.4 **	15 (12)		235.7 ± 3.7	101.8	15 (11)	237.5 ± 4.3	102.5	15 (12)	219.0 ± 3.4	94.6	15 (11)
PND56	280.2 ± 3.8 **	15 (12)		283.7 ± 4.0	101.2	15 (11)	283.4 ± 4.5	101.1	15 (12)	261.8 ± 4.0 *	93.4	15 (11)
PND63	320.3 ± 4.5 **	15 (12)		325.2 ± 3.9	101.5	15 (11)	322.8 ± 6.6	100.8	15 (12)	301.5 ± 4.7	94.1	15 (11)
PND70	353.6 ± 5.3 **	15 (12)		353.4 ± 5.0	99.9	15 (11)	353.7 ± 5.6	100.0	15 (12)	328.6 ± 5.1 *	92.9	15 (11)
PND77	377.8 ± 6.0 **	15 (12)		378.2 ± 5.8	100.1	15 (11)	377.6 ± 5.8	100.0	15 (12)	352.3 ± 5.1 *	93.3	15 (11)
PND84	397.8 ± 6.3 **	15 (12)		399.0 ± 5.6	100.3	15 (11)	402.0 ± 6.3	101.1	15 (12)	370.2 ± 5.6 *	93.1	15 (11)
PND91	415.3 ± 6.3 **	15 (12)		419.0 ± 6.0	100.9	15 (11)	418.2 ± 6.1	100.7	15 (12)	388.0 ± 5.8 *	93.4	15 (11)
PND98	427.2 ± 6.1 **	15 (12)		429.2 ± 6.7	100.5	15 (11)	424.2 ± 5.9	99.3	15 (12)	398.5 ± 6.9 *	93.3	15 (11)
PND105	441.8 ± 6.1 **	15 (12)		440.0 ± 6.9	99.6	15 (11)	434.4 ± 6.9	98.3	15 (12)	407.4 ± 7.0 **	92.2	15 (11)
PND112	453.0 ± 6.6 **	15 (12)		449.6 ± 7.4	99.2	15 (11)	449.2 ± 7.0	99.2	15 (12)	416.5 ± 7.4 **	91.9	15 (11)
PND119	459.1 ± 7.4 **	10		452.9 ± 9.0	98.6	10	460.7 ± 8.0	100.4	10	424.1 ± 10.1 *	92.4	10

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I04: Mean Body Weight Summary

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Date Report Requested: 08/04/2021

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Lab: Battelle

F1 Males: All F1 Animals

Phase Day	Treatment Groups (mg/L)					
	250			500		
	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
PND28	92.2 ± 1.7	95.1	15 (10)	79.0 ± 3.7 **	81.4	13 (4)
PND35	127.1 ± 2.5	94.9	15 (10)	99.2 ± 4.6 **	74.0	12 (4)
PND42	169.6 ± 3.2	93.3	15 (10)	131.7 ± 7.8 **	72.4	12 (4)
PND49	216.6 ± 3.8	93.5	15 (10)	170.0 ± 12.4 **	73.4	12 (4)
PND56	259.4 ± 3.6 *	92.5	15 (10)	208.1 ± 15.2 **	74.2	12 (4)
PND63	295.5 ± 4.5 *	92.2	15 (10)	239.9 ± 17.3 **	74.9	12 (4)
PND70	321.6 ± 5.0 **	91.0	15 (10)	265.4 ± 18.2 **	75.1	12 (4)
PND77	345.4 ± 5.9 **	91.4	15 (10)	285.1 ± 18.0 **	75.5	12 (4)
PND84	364.4 ± 5.9 **	91.6	15 (10)	301.2 ± 17.7 **	75.7	12 (4)
PND91	382.6 ± 7.2 **	92.1	15 (10)	315.4 ± 16.3 **	75.9	12 (4)
PND98	392.0 ± 7.3 **	91.8	15 (10)	322.0 ± 16.7 **	75.4	12 (4)
PND105	399.1 ± 7.7 **	90.3	15 (10)	329.5 ± 18.5 **	74.6	12 (4)
PND112	407.3 ± 7.9 **	89.9	15 (10)	338.4 ± 16.9 **	74.7	12 (4)
PND119	413.3 ± 9.2 **	90.0	10	335.3 ± 10.0 **	73.0	12

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Species/Strain: Rat/Harlan Sprague Dawley

I04: Mean Body Weight Summary

Test Compound: Sodium Metavanadate

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Date Report Requested: 08/04/2021

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Lab: Battelle

F1 Females: All F1 Animals

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
PND28	85.3 ± 1.3 **	15 (12)		89.7 ± 1.4	105.2	15 (11)	88.3 ± 1.1	103.6	15 (12)	83.1 ± 1.6	97.4	15 (11)
PND35	109.8 ± 3.7 **	15 (12)		114.9 ± 2.1	104.6	15 (11)	116.9 ± 1.7	106.4	15 (12)	110.4 ± 2.6	100.6	15 (11)
PND42	143.8 ± 2.4 **	15 (12)		148.1 ± 2.8	103.0	15 (11)	147.7 ± 2.2	102.7	15 (12)	142.6 ± 3.3	99.1	15 (11)
PND49	170.4 ± 2.4 **	15 (12)		174.9 ± 3.0	102.6	15 (11)	171.3 ± 2.1	100.5	15 (12)	167.5 ± 3.4	98.3	15 (11)
PND56	191.6 ± 2.5 **	15 (12)		199.1 ± 3.1	103.9	15 (11)	193.7 ± 2.4	101.1	15 (12)	190.5 ± 4.5	99.4	15 (11)
PND63	208.5 ± 2.6 **	15 (12)		218.6 ± 3.8	104.8	15 (11)	210.4 ± 2.6	100.9	15 (12)	206.6 ± 4.9	99.1	15 (11)
PND70	219.7 ± 4.0 **	15 (12)		233.9 ± 4.4 *	106.5	15 (11)	225.6 ± 3.2	102.7	15 (12)	219.6 ± 5.5	100.0	15 (11)
PND77	229.4 ± 3.6 **	15 (12)		248.8 ± 4.0 *	108.5	14 (10)	233.7 ± 3.3	101.9	15 (12)	229.1 ± 6.0	99.8	15 (11)
PND84	238.1 ± 3.7 **	15 (12)		257.7 ± 5.1 *	108.3	15 (11)	241.3 ± 3.6	101.3	15 (12)	239.5 ± 6.7	100.6	15 (11)
PND91	244.7 ± 3.6 *	15 (12)		267.1 ± 4.0 **	109.2	15 (11)	254.2 ± 4.5	103.9	15 (12)	250.2 ± 6.6	102.2	15 (11)
PND98	251.7 ± 3.3 **	15 (12)		267.8 ± 3.2 *	106.4	14 (11)	253.4 ± 3.4	100.7	15 (12)	251.0 ± 6.3	99.7	15 (11)
PND105	256.5 ± 3.7 **	15 (12)		275.8 ± 4.5 *	107.5	15 (11)	257.0 ± 4.4	100.2	15 (12)	256.1 ± 6.7	99.9	15 (11)
PND112	261.5 ± 3.0 **	15 (12)		279.2 ± 5.3 *	106.8	15 (11)	263.3 ± 3.8	100.7	15 (12)	259.6 ± 6.5	99.3	15 (11)
PND119	265.7 ± 1.9 **	10		282.7 ± 5.7	106.4	10	267.5 ± 4.9	100.7	10	266.7 ± 8.7	100.4	10

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Lab: Battelle

F1 Females: All F1 Animals

Phase Day	Treatment Groups (mg/L)					
	250			500		
	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
PND28	84.4 ± 1.2	99.0	15 (10)	66.1 ± 6.6 **	77.5	12 (4)
PND35	109.4 ± 1.7	99.7	15 (10)	88.2 ± 3.6 **	80.4	11 (3)
PND42	139.5 ± 2.6	97.0	15 (10)	105.7 ± 7.6 **	73.5	11 (3)
PND49	166.3 ± 3.0	97.6	15 (10)	132.6 ± 5.2 **	77.8	10 (3)
PND56	189.9 ± 2.9	99.1	15 (10)	156.2 ± 5.3 **	81.5	10 (3)
PND63	211.2 ± 3.4	101.3	15 (10)	177.7 ± 3.6 **	85.2	10 (3)
PND70	225.4 ± 3.5	102.6	15 (10)	190.7 ± 2.6 **	86.8	10 (3)
PND77	237.4 ± 3.2	103.5	15 (10)	202.8 ± 2.4 **	88.4	10 (3)
PND84	244.1 ± 3.3	102.5	15 (10)	208.3 ± 1.6 **	87.5	10 (3)
PND91	258.2 ± 3.5	105.5	15 (10)	222.6 ± 2.4 *	91.0	10 (3)
PND98	259.0 ± 3.7	102.9	15 (10)	223.2 ± 2.4 **	88.7	10 (3)
PND105	261.6 ± 3.3	102.0	15 (10)	225.6 ± 2.3 **	87.9	10 (3)
PND112	266.2 ± 3.2	101.8	15 (10)	230.4 ± 2.8 **	88.1	10 (3)
PND119	272.5 ± 4.6	102.6	10	235.1 ± 3.1 **	88.5	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 ****