

Study Number: C08004-03
Test Type: TOX
Route: Dosing in Water
Species/Strain: Rat/Harlan Sprague Dawley

I04: Mean Body Weight Summary
Test Compound: Vanadyl sulfate
CAS Number: 27774-13-6

Date Report Requested: 05/10/2022
Time Report Requested: 07:16:42
Lab: Battelle with EPL

Study Number: C08004-03
Study Gender: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.4.1
Stat Version: S

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Lab: Battelle with EPL

F0 Females

Treatment Groups (mg/L)

Phase Day	0			21			41.9			83.8		
	Wt (g)	N		Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
GD6	245.5 ± 3.2	15		244.8 ± 3.0	99.7	16	244.7 ± 2.5	99.7	16	242.7 ± 3.1	98.8	16
GD9	258.7 ± 3.5	15		259.2 ± 3.2	100.2	16	259.1 ± 3.1	100.2	16	257.5 ± 3.2	99.5	16
GD12	273.7 ± 3.9 *	15		273.2 ± 3.3	99.8	16	273.2 ± 3.6	99.8	16	270.9 ± 3.3	99.0	16
GD15	293.0 ± 3.7 *	15		294.4 ± 3.8	100.5	16	293.1 ± 4.2	100.0	16	289.2 ± 3.7	98.7	16
GD18	334.3 ± 4.2 **	15		337.1 ± 4.9	100.8	16	334.4 ± 5.8	100.0	16	327.6 ± 4.9	98.0	16
GD21	386.1 ± 4.6 **	15		388.4 ± 5.7	100.6	16	387.5 ± 8.2	100.4	16	371.9 ± 5.8	96.3	16
LD1	283.2 ± 4.4 **	15		285.5 ± 4.3	100.8	16	281.1 ± 3.8	99.2	16	273.0 ± 5.0	96.4	16
LD4	290.4 ± 4.6 *	15		290.5 ± 3.8	100.0	16	291.0 ± 4.5	100.2	16	283.3 ± 4.2	97.6	16
LD7	299.7 ± 4.3 *	15		300.4 ± 3.3	100.3	16	298.7 ± 4.7	99.7	15	294.7 ± 4.5	98.3	15
LD10	306.2 ± 4.1	15		306.1 ± 3.3	100.0	16	306.3 ± 4.9	100.0	15	307.3 ± 4.4	100.4	15
LD13	313.0 ± 4.1	15		306.5 ± 3.4	98.0	16	310.2 ± 4.6	99.1	15	310.8 ± 4.9	99.3	15
LD16	316.8 ± 4.4	15		314.3 ± 3.6	99.2	16	320.8 ± 4.4	101.3	15	313.1 ± 4.6	98.8	15
LD19	306.0 ± 4.3	15		307.3 ± 4.0	100.4	16	306.9 ± 3.8	100.3	15	308.5 ± 4.3	100.8	15
LD21	300.5 ± 4.4	15		304.6 ± 4.6	101.4	16	306.3 ± 4.8	102.0	15	302.6 ± 5.0	100.7	14
LD25	282.9 ± 5.7	15		279.7 ± 3.8	98.9	16	282.3 ± 4.4	99.8	15	288.1 ± 4.4	101.8	14
LD28	285.3 ± 4.9	15		278.0 ± 4.0	97.4	16	282.3 ± 4.2	99.0	15	285.0 ± 4.3	99.9	14

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Lab: Battelle with EPL

F0 Females

Phase Day	Treatment Groups (mg/L)					
	168			335		
	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
GD6	243.3 ± 2.3	99.1	15	242.8 ± 3.1	98.9	16
GD9	257.3 ± 2.4	99.5	15	253.6 ± 3.9	98.1	16
GD12	269.7 ± 2.8	98.5	15	264.7 ± 3.6	96.7	16
GD15	288.6 ± 2.9	98.5	15	283.4 ± 4.2	96.7	16
GD18	325.2 ± 4.4	97.3	15	318.8 ± 5.2 *	95.4	16
GD21	372.9 ± 6.7	96.6	15	361.8 ± 7.6 *	93.7	16
LD1	273.9 ± 3.0	96.7	15	267.2 ± 4.9 *	94.3	15
LD4	284.3 ± 3.6	97.9	15	277.3 ± 5.1	95.5	15
LD7	294.4 ± 4.0	98.2	15	287.6 ± 5.2	96.0	15
LD10	303.4 ± 3.9	99.1	15	299.8 ± 4.5	97.9	15
LD13	304.2 ± 4.6	97.2	15	303.8 ± 4.7	97.1	15
LD16	314.6 ± 5.2	99.3	15	304.5 ± 5.3	96.1	15
LD19	307.3 ± 4.0	100.4	15	301.0 ± 4.3	98.4	15
LD21	301.5 ± 4.1	100.3	15	296.1 ± 5.9	98.6	15
LD25	286.3 ± 4.1	101.2	15	281.1 ± 4.6	99.4	15
LD28	285.7 ± 3.7	100.1	15	280.8 ± 4.9	98.4	15

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Lab: Battelle with EPL

F1 Males: All F1 Animals

Treatment Groups (mg/L)

Phase Day	0			21			41.9			83.8		
	Wt (g)	N		Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
PND28	91.8 ± 2.0	15 (12)		94.1 ± 1.4	102.5	15 (14)	92.4 ± 2.4	100.6	15 (11)	93.5 ± 2.5	101.9	14 (11)
PND35	131.2 ± 3.3 *	15 (12)		129.3 ± 2.0	98.6	15 (14)	132.4 ± 3.0	100.9	15 (11)	131.2 ± 4.8	100.0	14 (11)
PND42	177.1 ± 4.6 *	15 (12)		174.8 ± 3.4	98.7	15 (14)	179.6 ± 4.4	101.4	15 (11)	176.9 ± 5.6	99.9	14 (11)
PND49	224.5 ± 5.4 **	15 (12)		226.1 ± 4.0	100.7	15 (14)	229.1 ± 4.6	102.0	15 (11)	226.1 ± 6.9	100.7	14 (11)
PND56	267.7 ± 6.5 **	15 (12)		271.9 ± 4.5	101.6	15 (14)	275.6 ± 4.9	103.0	15 (11)	271.8 ± 7.1	101.5	14 (11)
PND63	310.3 ± 6.8 **	15 (12)		313.9 ± 5.1	101.2	15 (14)	316.5 ± 5.5	102.0	15 (11)	311.9 ± 7.8	100.5	14 (11)
PND70	342.3 ± 7.8 **	15 (12)		346.7 ± 5.3	101.3	15 (14)	346.7 ± 5.5	101.3	15 (11)	343.8 ± 8.1	100.5	14 (11)
PND77	365.7 ± 8.9 **	15 (12)		371.2 ± 5.9	101.5	15 (14)	371.2 ± 5.9	101.5	15 (11)	368.3 ± 8.6	100.7	14 (11)
PND84	386.9 ± 9.3 **	15 (12)		392.5 ± 7.1	101.4	15 (14)	390.2 ± 6.6	100.8	15 (11)	386.1 ± 8.9	99.8	14 (11)
PND91	400.8 ± 10.5 **	15 (12)		410.7 ± 7.7	102.5	15 (14)	407.2 ± 7.0	101.6	15 (11)	402.7 ± 9.4	100.5	14 (11)
PND98	416.3 ± 10.7 *	15 (12)		419.2 ± 9.0	100.7	15 (14)	422.3 ± 7.9	101.4	15 (11)	418.9 ± 9.5	100.6	14 (11)
PND105	426.3 ± 11.7 *	15 (12)		442.2 ± 9.1	103.7	15 (14)	432.5 ± 8.0	101.5	15 (11)	434.9 ± 10.5	102.0	13 (10)
PND112	438.6 ± 11.5 **	15 (12)		454.4 ± 8.0	103.6	15 (14)	442.9 ± 8.6	101.0	15 (11)	440.4 ± 11.4	100.4	14 (11)

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Lab: Battelle with EPL

F1 Males: All F1 Animals

Phase Day	Treatment Groups (mg/L)					
	168			335		
	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
PND28	89.6 ± 1.5	97.5	15 (12)	89.9 ± 1.3	97.9	15 (13)
PND35	129.0 ± 1.8	98.3	15 (12)	122.9 ± 2.0	93.7	15 (13)
PND42	174.7 ± 2.3	98.6	15 (12)	165.7 ± 2.9	93.6	15 (13)
PND49	221.1 ± 2.5	98.5	15 (12)	209.4 ± 3.8	93.3	15 (13)
PND56	264.6 ± 3.4	98.8	15 (12)	252.5 ± 3.8	94.3	15 (13)
PND63	304.6 ± 4.0	98.2	15 (12)	294.9 ± 3.8	95.0	15 (13)
PND70	330.7 ± 4.6	96.6	15 (12)	321.8 ± 4.9	94.0	15 (13)
PND77	354.9 ± 5.9	97.0	15 (12)	347.0 ± 5.1	94.9	15 (13)
PND84	373.0 ± 6.4	96.4	15 (12)	364.2 ± 5.5	94.1	15 (13)
PND91	388.3 ± 6.4	96.9	15 (12)	377.2 ± 6.1	94.1	15 (13)
PND98	403.7 ± 6.7	97.0	15 (12)	397.3 ± 5.5	95.4	15 (13)
PND105	415.1 ± 7.4	97.4	15 (12)	406.1 ± 5.4	95.3	15 (13)
PND112	415.2 ± 9.7	94.7	15 (12)	415.9 ± 6.2	94.8	15 (13)

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Lab: Battelle with EPL

F1 Females: All F1 Animals

Phase Day	Treatment Groups (mg/L)										
	0			21			41.9			83.8	
	Wt (g)	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
PND28	84.2 ± 2.1 *	15 (12)	85.0 ± 1.5	101.0	15 (14)	86.1 ± 2.8	102.3	15 (11)	87.4 ± 1.3	103.9	14 (11)
PND35	113.3 ± 2.7 **	15 (12)	114.3 ± 2.1	100.9	15 (14)	117.6 ± 3.0	103.8	15 (11)	114.7 ± 1.7	101.2	14 (11)
PND42	142.6 ± 3.6 **	15 (12)	145.4 ± 2.7	101.9	15 (14)	151.0 ± 3.7	105.9	15 (11)	147.5 ± 3.1	103.4	14 (11)
PND49	172.8 ± 3.8 **	15 (12)	171.4 ± 3.1	99.2	15 (14)	176.2 ± 4.0	102.0	15 (11)	173.1 ± 3.5	100.2	14 (11)
PND56	192.3 ± 4.2 *	15 (12)	195.3 ± 3.8	101.6	15 (14)	196.7 ± 4.5	102.3	15 (11)	193.7 ± 4.0	100.7	14 (11)
PND63	212.8 ± 4.8	15 (12)	210.3 ± 3.9	98.8	15 (14)	216.0 ± 4.9	101.5	15 (11)	214.0 ± 3.8	100.5	14 (11)
PND70	224.2 ± 4.8	15 (12)	225.7 ± 4.8	100.7	15 (14)	230.3 ± 5.1	102.7	15 (11)	225.1 ± 5.1	100.4	14 (11)
PND77	239.6 ± 6.9	15 (12)	237.3 ± 4.5	99.0	15 (14)	243.8 ± 6.6	101.8	15 (11)	238.2 ± 4.8	99.4	14 (11)
PND84	248.4 ± 5.7	15 (12)	247.5 ± 5.2	99.6	15 (14)	254.3 ± 6.2	102.4	15 (11)	252.4 ± 4.8	101.6	14 (11)
PND91	251.4 ± 5.7	15 (12)	258.4 ± 6.0	102.8	15 (14)	262.1 ± 6.8	104.2	15 (11)	255.4 ± 5.5	101.6	14 (11)
PND98	263.6 ± 6.3	15 (12)	262.7 ± 4.8	99.7	15 (14)	269.0 ± 6.5	102.0	15 (11)	260.4 ± 6.0	98.8	14 (11)
PND105	267.4 ± 7.8	15 (12)	265.1 ± 5.1	99.1	15 (14)	272.9 ± 7.2	102.0	15 (11)	266.6 ± 5.1	99.7	14 (11)
PND112	267.6 ± 6.4	15 (12)	272.6 ± 4.7	101.9	15 (14)	279.9 ± 7.5	104.6	15 (11)	272.2 ± 5.6	101.7	14 (11)

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F1 Females: All F1 Animals

Phase Day	Treatment Groups (mg/L)					
	168			335		
	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
PND28	82.4 ± 1.8	98.0	15 (12)	80.5 ± 1.4	95.7	15 (13)
PND35	111.5 ± 2.0	98.4	15 (12)	104.3 ± 1.8 *	92.1	15 (13)
PND42	145.0 ± 2.2	101.7	15 (12)	134.5 ± 2.3	94.3	15 (13)
PND49	172.2 ± 2.9	99.7	15 (12)	162.0 ± 2.3	93.8	15 (13)
PND56	195.1 ± 3.7	101.4	15 (12)	182.5 ± 1.8	94.9	15 (13)
PND63	214.6 ± 4.2	100.9	15 (12)	204.2 ± 3.1	95.9	15 (13)
PND70	228.5 ± 4.6	101.9	15 (12)	215.8 ± 2.2	96.3	15 (13)
PND77	241.0 ± 5.4	100.6	15 (12)	230.8 ± 2.7	96.3	15 (13)
PND84	253.0 ± 7.2	101.8	15 (12)	237.6 ± 3.7	95.6	15 (13)
PND91	259.0 ± 6.1	103.0	15 (12)	249.3 ± 4.3	99.2	15 (13)
PND98	265.1 ± 5.1	100.6	15 (12)	255.4 ± 4.0	96.9	15 (13)
PND105	272.0 ± 6.6	101.7	15 (12)	261.1 ± 3.0	97.7	15 (13)
PND112	277.1 ± 6.6	103.6	15 (12)	265.3 ± 3.7	99.2	15 (13)

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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 for F0 animals performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests.

Statistical analysis for the F1 generation 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 $P \leq 0.01$

**** END OF REPORT ****