Study Number:	C08004-03
Study Gender:	Both
PWG Approval Date:	See web page for date of PWG Approval
Version:	v1.2.9
Stat Version:	S

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

I04G: Mean Body Weight Gain
Test Compound: Vanadyl sulfate
CAS Number: 27774-13-6

Date Report Requested: 08/04/2021
Time Report Requested: 05:58:00
Lab: Battelle

F0 Females

Phase	Days	Treatment Groups (mg/L)											
		0		21		41.9		83.8		168		335	
		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	13.1 ± 0.8	15	14.4 ± 0.6	16	14.4 ± 1.0	16	14.8 ± 0.7	16	14.1 ± 0.8	15	10.9 ± 1.5	16
	9 - 12	15.0 ± 0.8 **	15	14.0 ± 0.9	16	14.1 ± 0.9	16	13.4 ± 0.7	16	12.3 ± 1.3	15	11.1 ± 0.7 **	16
	12 - 15	19.3 ± 0.7	15	21.2 ± 1.0	16	19.9 ± 1.7	16	18.3 ± 1.1	16	18.9 ± 0.9	15	18.6 ± 0.8	16
	15 - 18	41.3 ± 1.5 **	15	42.7 ± 1.6	16	41.3 ± 2.2	16	38.4 ± 2.3	16	36.6 ± 2.0	15	35.4 ± 1.7 *	16
	18 - 21	51.8 ± 1.3 *	15	51.3 ± 1.5	16	53.1 ± 2.9	16	44.4 ± 2.4	16	47.7 ± 2.8	15	43.0 ± 3.8	16
	6 - 21	140.6 ± 2.3 **	15	143.5 ± 4.0	16	142.7 ± 6.8	16	129.2 ± 4.3	16	129.6 ± 5.9	15	119.0 ± 5.7 **	16
Lactation	1 - 4	7.2 ± 1.6	15	5.0 ± 3.5	16	9.9 ± 2.0	16	10.3 ± 2.0	16	10.3 ± 1.9	15	10.1 ± 1.8	15
	4 - 7	9.2 ± 1.5	15	9.9 ± 1.4	16	7.5 ± 1.7	15	9.9 ± 2.4	15	10.1 ± 2.2	15	10.3 ± 2.2	15
	7 - 10	6.5 ± 2.3 *	15	5.7 ± 2.5	16	7.6 ± 2.2	15	12.6 ± 2.8	15	9.0 ± 2.3	15	12.2 ± 2.3	15
	10 - 13	6.8 ± 2.2	15	0.4 ± 2.8	16	3.9 ± 2.2	15	3.5 ± 2.1	15	0.7 ± 2.4	15	4.1 ± 3.1	15
	13 - 16	3.8 ± 1.7	15	7.8 ± 2.3	16	10.6 ± 2.1	15	2.3 ± 2.4	15	10.4 ± 2.7	15	0.7 ± 3.6	15
	16 - 19	-10.8 ± 1.9	15	-7.0 ± 1.5	16	-13.9 ± 2.2	15	-4.5 ± 2.6	15	-7.3 ± 2.7	15	-3.5 ± 3.4	15
	19 - 21	-5.5 ± 2.0	15	-2.7 ± 2.2	16	-0.6 ± 3.1	15	-4.5 ± 2.1	14	-5.8 ± 2.3	15	-4.9 ± 3.0	15
	21 - 25	-17.6 ± 2.9	15	-24.8 ± 2.2	16	-24.0 ± 2.8	15	-14.5 ± 2.8	14	-15.2 ± 2.8	15	-15.0 ± 3.3	15
	25 - 28	2.4 ± 1.9	15	-1.8 ± 1.1	16	0.0 ± 2.8	15	-3.1 ± 2.2	14	-0.6 ± 2.1	15	-0.3 ± 2.4	15
	1 - 28	2.1 ± 2.7 **	15	-7.5 ± 3.9	16	0.5 ± 2.3	15	8.4 ± 3.1	14	11.8 ± 3.1 *	15	13.6 ± 2.3 **	15

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Phase	Days	Treatment Groups (mg/L)											
		0		21		41.9		83.8		168		335	
		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	39.4 ± 1.7	15 (12)	35.2 ± 2.1	15 (14)	40.0 ± 1.9	15 (11)	37.7 ± 2.7	14 (11)	39.4 ± 1.0	15 (12)	33.0 ± 0.9	15 (13)
	35 - 42	45.9 ± 1.6	15 (12)	45.5 ± 1.8	15 (14)	47.2 ± 2.0	15 (11)	45.7 ± 1.6	14 (11)	45.7 ± 0.9	15 (12)	42.8 ± 1.5	15 (13)
	42 - 49	47.5 ± 1.5 **	15 (12)	51.4 ± 1.5	15 (14)	49.5 ± 1.5	15 (11)	49.2 ± 1.9	14 (11)	46.4 ± 1.1	15 (12)	43.7 ± 1.3	15 (13)
	49 - 56	43.2 ± 1.9	15 (12)	45.8 ± 1.2	15 (14)	46.5 ± 0.9	15 (11)	45.7 ± 1.6	14 (11)	43.5 ± 1.5	15 (12)	43.0 ± 1.1	15 (13)
	56 - 63	42.6 ± 2.3	15 (12)	42.0 ± 1.0	15 (14)	40.9 ± 1.6	15 (11)	40.2 ± 1.3	14 (11)	40.1 ± 1.4	15 (12)	42.4 ± 1.3	15 (13)
	63 - 70	32.0 ± 2.6 *	15 (12)	32.8 ± 1.3	15 (14)	30.2 ± 1.3	15 (11)	31.9 ± 1.6	14 (11)	26.1 ± 1.6	15 (12)	26.9 ± 2.3	15 (13)
	70 - 77	23.4 ± 2.1	15 (12)	24.5 ± 2.2	15 (14)	24.4 ± 1.3	15 (11)	24.4 ± 1.5	14 (11)	24.2 ± 2.4	15 (12)	25.2 ± 2.5	15 (13)
	77 - 84	21.2 ± 1.8	15 (12)	21.3 ± 2.9	15 (14)	19.0 ± 1.4	15 (11)	17.8 ± 1.2	14 (11)	18.1 ± 0.7	15 (12)	17.1 ± 2.6	15 (13)
	84 - 91	13.9 ± 2.1	15 (12)	18.2 ± 1.4	15 (14)	17.0 ± 1.7	15 (11)	16.6 ± 1.2	14 (11)	15.3 ± 1.0	15 (12)	13.1 ± 3.7	15 (13)
	91 - 98	15.5 ± 1.7	15 (12)	8.5 ± 8.4	15 (14)	15.2 ± 3.0	15 (11)	16.2 ± 1.0	14 (11)	15.4 ± 0.8	15 (12)	20.0 ± 2.9	15 (13)
	98 - 105	9.9 ± 1.6	15 (12)	22.9 ± 8.6	15 (14)	10.2 ± 1.1	15 (11)	12.0 ± 1.5	13 (10)	11.3 ± 1.1	15 (12)	8.8 ± 0.8	15 (13)
	105 - 112	12.3 ± 1.5	15 (12)	12.3 ± 1.9	15 (14)	10.3 ± 1.0	15 (11)	10.3 ± 2.7	13 (10)	0.1 ± 6.8	15 (12)	9.8 ± 2.0	15 (13)
	28 - 112	346.8 ± 10.3 **	15 (12)	360.3 ± 7.3	15 (14)	350.5 ± 7.5	15 (11)	346.9 ± 9.4	14 (11)	325.6 ± 9.6	15 (12)	326.0 ± 5.5	15 (13)

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Phase	Days	Treatment Groups (mg/L)											
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		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	29.2 ± 1.3 **	15 (12)	29.3 ± 1.0	15 (14)	31.5 ± 1.2	15 (11)	27.3 ± 1.1	14 (11)	29.0 ± 0.9	15 (12)	23.8 ± 1.0 **	15 (13)
	35 - 42	29.3 ± 2.1	15 (12)	31.1 ± 1.1	15 (14)	33.4 ± 1.1	15 (11)	32.8 ± 1.6	14 (11)	33.6 ± 0.6	15 (12)	30.1 ± 0.9	15 (13)
	42 - 49	30.1 ± 2.4	15 (12)	26.0 ± 1.2	15 (14)	25.2 ± 1.4	15 (11)	25.6 ± 1.1	14 (11)	27.2 ± 1.6	15 (12)	27.5 ± 0.9	15 (13)
	49 - 56	19.6 ± 0.9	15 (12)	24.0 ± 1.0 *	15 (14)	20.5 ± 1.3	15 (11)	20.6 ± 1.4	14 (11)	22.8 ± 1.6	15 (12)	20.5 ± 0.8	15 (13)
	56 - 63	20.5 ± 1.3	15 (12)	15.0 ± 1.0 *	15 (14)	19.3 ± 1.4	15 (11)	20.3 ± 1.7	14 (11)	19.6 ± 1.3	15 (12)	21.7 ± 1.6	15 (13)
	63 - 70	11.4 ± 0.9	15 (12)	15.4 ± 1.3	15 (14)	14.3 ± 1.0	15 (11)	11.1 ± 2.1	14 (11)	13.9 ± 1.6	15 (12)	11.6 ± 2.2	15 (13)
	70 - 77	15.4 ± 2.5	15 (12)	11.6 ± 1.1	15 (14)	13.5 ± 2.0	15 (11)	13.1 ± 1.4	14 (11)	12.5 ± 2.3	15 (12)	15.0 ± 2.1	15 (13)
	77 - 84	8.8 ± 1.9	15 (12)	10.3 ± 1.9	15 (14)	10.5 ± 1.7	15 (11)	14.1 ± 2.8	14 (11)	12.0 ± 2.8	15 (12)	6.8 ± 2.4	15 (13)
	84 - 91	3.0 ± 1.9	15 (12)	10.9 ± 2.9	15 (14)	7.8 ± 1.6	15 (11)	3.1 ± 2.5	14 (11)	6.1 ± 3.0	15 (12)	11.7 ± 2.6	15 (13)
	91 - 98	12.2 ± 2.0	15 (12)	4.3 ± 2.3	15 (14)	6.9 ± 1.0	15 (11)	4.9 ± 1.7	14 (11)	6.1 ± 1.8	15 (12)	6.1 ± 3.4	15 (13)
	98 - 105	3.8 ± 1.9	15 (12)	2.4 ± 1.6	15 (14)	3.9 ± 1.9	15 (11)	6.2 ± 1.8	14 (11)	6.9 ± 2.5	15 (12)	5.8 ± 3.1	15 (13)
	105 - 112	0.2 ± 2.3	15 (12)	7.4 ± 1.9 *	15 (14)	7.1 ± 1.5	15 (11)	5.7 ± 3.0	14 (11)	5.1 ± 2.0	15 (12)	4.2 ± 1.6	15 (13)
	28 - 112	183.4 ± 4.9	15 (12)	187.5 ± 4.2	15 (14)	193.8 ± 6.6	15 (11)	184.8 ± 5.1	14 (11)	194.7 ± 6.1	15 (12)	184.8 ± 3.5	15 (13)

LEGEND

Data are displayed as mean ± 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 <= 0.05

** Statistically significant at P <= 0.01

** END OF REPORT **