

Study Number: C16019-01
Test Type: TOX - Perinatal DRF
Route: Dosing in Water
Species/Strain: Rat/Harlan Sprague Dawley

R19G: Pup Mean Body Weight Gain
Test Compound: Thallium (I) Sulfate
CAS Number: 7446-18-6

Date Report Requested: 06/11/2020
Time Report Requested: 06:59:28
Lab: Battelle

Study Number: C16019-01
Study Gender: Female
PWG Approval Date See web page for date of PWG Approval

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F1 Males

Treatment Groups (mg/L)

Phase	Days	0		3.13		6.25		12.5	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	3.67 ± 0.10	99 (17)	3.52 ± 0.15	79 (12)	3.57 ± 0.09	104 (17)	3.49 ± 0.08	80 (12)
	4 - 7	4.77 ± 0.18	79 (14)	4.71 ± 0.18	79 (12)	4.91 ± 0.25	85 (14)	4.43 ± 0.17	80 (12)
	7 - 10	5.71 ± 0.25	79 (14)	5.76 ± 0.21	78 (12)	5.89 ± 0.17	83 (14)	5.64 ± 0.08	80 (12)
	10 - 13	5.88 ± 0.12 *	78 (14)	5.95 ± 0.15	77 (12)	5.85 ± 0.13	83 (14)	5.33 ± 0.24	80 (12)
	13 - 16	5.04 ± 0.12 **	78 (14)	5.23 ± 0.13	77 (12)	5.09 ± 0.21	83 (14)	4.02 ± 0.27 **	80 (12)
	16 - 19	7.98 ± 0.36 **	78 (14)	7.82 ± 0.43	77 (12)	7.68 ± 0.50	83 (14)	5.10 ± 0.30 **	80 (12)
	19 - 21	9.12 ± 0.17 **	78 (14)	9.37 ± 0.20	77 (12)	9.31 ± 0.29	83 (14)	7.88 ± 0.27 **	80 (12)
	21 - 25	19.06 ± 0.57	78 (14)	18.50 ± 0.27	77 (12)	19.26 ± 0.50	83 (14)	18.05 ± 0.63	80 (12)
	25 - 28	18.21 ± 0.38 *	78 (14)	16.06 ± 0.55 *	77 (12)	16.40 ± 0.70 *	83 (14)	16.22 ± 0.46 *	80 (12)
	4 - 28	75.94 ± 0.96 **	78 (14)	73.48 ± 0.86	77 (12)	74.43 ± 1.82	83 (14)	66.67 ± 1.22 **	80 (12)

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F1 Females

Treatment Groups (mg/L)

Phase	Days	0		3.13		6.25		12.5	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	3.45 ± 0.12	122 (17)	3.36 ± 0.14	85 (12)	3.59 ± 0.10	119 (17)	3.62 ± 0.14	79 (12)
	4 - 7	4.34 ± 0.16	101 (14)	4.47 ± 0.16	85 (12)	4.70 ± 0.17	101 (14)	4.32 ± 0.18	79 (12)
	7 - 10	5.54 ± 0.18	100 (14)	5.42 ± 0.22	85 (12)	5.64 ± 0.14	101 (14)	5.39 ± 0.15	79 (12)
	10 - 13	5.63 ± 0.12	100 (14)	5.59 ± 0.15	85 (12)	5.38 ± 0.14	99 (14)	5.40 ± 0.17	79 (12)
	13 - 16	4.83 ± 0.09 **	100 (14)	4.95 ± 0.15	85 (12)	4.93 ± 0.16	98 (14)	3.72 ± 0.23 **	79 (12)
	16 - 19	7.87 ± 0.45 **	100 (14)	7.45 ± 0.37	85 (12)	7.59 ± 0.44	98 (14)	5.48 ± 0.31 **	79 (12)
	19 - 21	8.08 ± 0.14 *	100 (14)	8.15 ± 0.22	85 (12)	8.42 ± 0.20	99 (14)	7.29 ± 0.37	79 (12)
	21 - 25	16.60 ± 0.46	100 (14)	16.03 ± 0.37	85 (12)	17.06 ± 0.38	99 (14)	16.14 ± 0.65	79 (12)
	25 - 28	15.15 ± 0.39	100 (14)	13.38 ± 0.53 *	85 (12)	14.30 ± 0.55	99 (14)	14.31 ± 0.53	79 (12)
	4 - 28	68.09 ± 0.82 **	100 (14)	65.44 ± 1.16	85 (12)	68.13 ± 1.28	99 (14)	62.08 ± 1.46 **	79 (12)

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F1 Pups

Treatment Groups (mg/L)

Phase	Days	0		3.13		6.25		12.5	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	3.55 ± 0.10	221 (17)	3.44 ± 0.15	164 (12)	3.58 ± 0.09	223 (17)	3.58 ± 0.10	159 (12)
	4 - 7	4.54 ± 0.16	180 (14)	4.58 ± 0.16	164 (12)	4.74 ± 0.19	186 (14)	4.40 ± 0.17	159 (12)
	7 - 10	5.64 ± 0.18	179 (14)	5.60 ± 0.21	163 (12)	5.73 ± 0.14	184 (14)	5.53 ± 0.09	159 (12)
	10 - 13	5.76 ± 0.10 *	178 (14)	5.76 ± 0.13	162 (12)	5.59 ± 0.13	182 (14)	5.39 ± 0.18	159 (12)
	13 - 16	4.92 ± 0.08 **	178 (14)	5.10 ± 0.14	162 (12)	5.00 ± 0.17	181 (14)	3.85 ± 0.23 **	159 (12)
	16 - 19	7.90 ± 0.41 **	178 (14)	7.67 ± 0.39	162 (12)	7.57 ± 0.44	181 (14)	5.35 ± 0.25 **	159 (12)
	19 - 21	8.55 ± 0.12 **	178 (14)	8.71 ± 0.18	162 (12)	8.87 ± 0.25	182 (14)	7.60 ± 0.31 *	159 (12)
	21 - 25	17.67 ± 0.51	178 (14)	17.22 ± 0.31	162 (12)	18.02 ± 0.41	182 (14)	17.14 ± 0.63	159 (12)
	25 - 28	16.48 ± 0.34	178 (14)	14.62 ± 0.49 *	162 (12)	15.27 ± 0.57	182 (14)	15.29 ± 0.51	159 (12)
4 - 28	71.56 ± 0.86 **	178 (14)	69.30 ± 1.05	162 (12)	70.88 ± 1.43	182 (14)	64.55 ± 1.33 **	159 (12)	

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LEGEND

N = the number of pups (number of litters)

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

PND - Postnatal Day, pups pre-weaning

Statistical analysis performed using mixed models, with litter as random effect for both trend and pairwise tests, and using Dunnett-Hsu adjustments 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 female pup weight on PND16 in the 6.25 mg/kg group was excluded from combined sex and female analysis as an outlier, along with the weight gains over the intervals that are bounded by this observation.

**** END OF REPORT ****