

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

R19: Pup Mean Body Weight Summary
Test Compound: Thallium (I) Sulfate
CAS Number: 7446-18-6

Date Report Requested: 06/11/2020
Time Report Requested: 06:58:48
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	0		3.13			6.25			12.5		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.20 ± 0.09	99 (17)	7.18 ± 0.12	99.85	79 (12)	7.19 ± 0.10	99.90	104 (17)	7.34 ± 0.13	101.98	80 (12)
PND4	10.87 ± 0.17	99 (17)	10.71 ± 0.24	98.50	79 (12)	10.76 ± 0.16	99.01	104 (17)	10.83 ± 0.16	99.63	80 (12)
PND7	15.79 ± 0.33	79 (14)	15.43 ± 0.37	97.71	79 (12)	15.77 ± 0.39	99.86	85 (14)	15.26 ± 0.25	96.67	80 (12)
PND10	21.50 ± 0.43	79 (14)	21.27 ± 0.52	98.93	78 (12)	21.73 ± 0.44	101.04	83 (14)	20.90 ± 0.31	97.20	80 (12)
PND13	27.55 ± 0.35 *	78 (14)	27.29 ± 0.44	99.04	77 (12)	27.58 ± 0.47	100.11	83 (14)	26.23 ± 0.44	95.21	80 (12)
PND16	32.59 ± 0.34 **	78 (14)	32.51 ± 0.51	99.76	77 (12)	32.67 ± 0.55	100.26	83 (14)	30.25 ± 0.37 **	92.81	80 (12)
PND19	40.57 ± 0.59 **	78 (14)	40.34 ± 0.84	99.43	77 (12)	40.36 ± 1.01	99.48	83 (14)	35.35 ± 0.55 **	87.14	80 (12)
PND21	49.69 ± 0.61 **	78 (14)	49.70 ± 0.85	100.03	77 (12)	49.67 ± 0.98	99.96	83 (14)	43.23 ± 0.69 **	87.00	80 (12)
PND25	68.75 ± 0.97 **	78 (14)	68.21 ± 0.97	99.21	77 (12)	68.93 ± 1.39	100.25	83 (14)	61.28 ± 1.09 **	89.13	80 (12)
PND28	86.96 ± 1.07 **	78 (14)	84.27 ± 0.99	96.90	77 (12)	85.33 ± 1.94	98.12	83 (14)	77.50 ± 1.31 **	89.12	80 (12)

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F1 Females

Treatment Groups (mg/L)

Phase	0		3.13			6.25			12.5		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	6.85 ± 0.09	122 (17)	6.98 ± 0.12	101.89	85 (12)	6.94 ± 0.08	101.30	119 (17)	7.00 ± 0.12	102.22	79 (12)
PND4	10.29 ± 0.18	122 (17)	10.34 ± 0.20	100.44	85 (12)	10.52 ± 0.15	102.22	119 (17)	10.62 ± 0.21	103.14	79 (12)
PND7	14.78 ± 0.33	101 (14)	14.81 ± 0.31	100.19	85 (12)	15.29 ± 0.30	103.45	101 (14)	14.94 ± 0.32	101.06	79 (12)
PND10	20.37 ± 0.38	100 (14)	20.23 ± 0.51	99.32	85 (12)	20.94 ± 0.40	102.80	101 (14)	20.34 ± 0.41	99.86	79 (12)
PND13	26.04 ± 0.42	100 (14)	25.82 ± 0.60	99.18	85 (12)	26.48 ± 0.39	101.71	99 (14)	25.76 ± 0.44	98.94	79 (12)
PND16	30.86 ± 0.39	100 (14)	30.77 ± 0.64	99.71	85 (12)	31.41 ± 0.45	101.77	98 (14)	29.48 ± 0.53	95.51	79 (12)
PND19	38.74 ± 0.76 **	100 (14)	38.23 ± 0.91	98.70	85 (12)	39.01 ± 0.87	100.69	99 (14)	34.97 ± 0.73 **	90.27	79 (12)
PND21	46.81 ± 0.74 **	100 (14)	46.38 ± 1.06	99.07	85 (12)	47.43 ± 0.79	101.31	99 (14)	42.26 ± 0.97 **	90.27	79 (12)
PND25	63.41 ± 0.84 **	100 (14)	62.41 ± 1.29	98.42	85 (12)	64.49 ± 1.04	101.70	99 (14)	58.40 ± 1.47 *	92.10	79 (12)
PND28	78.56 ± 0.95 **	100 (14)	75.78 ± 1.33	96.47	85 (12)	78.79 ± 1.39	100.29	99 (14)	72.71 ± 1.60 **	92.56	79 (12)

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F1 Pups

Treatment Groups (mg/L)

Phase	0		3.13			6.25			12.5		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.01 ± 0.09	221 (17)	7.06 ± 0.12	100.70	164 (12)	7.04 ± 0.09	100.41	223 (17)	7.16 ± 0.11	102.12	159 (12)
PND4	10.57 ± 0.17	221 (17)	10.51 ± 0.21	99.43	164 (12)	10.62 ± 0.15	100.50	223 (17)	10.74 ± 0.16	101.68	159 (12)
PND7	15.25 ± 0.32	180 (14)	15.09 ± 0.34	98.94	164 (12)	15.44 ± 0.31	101.25	186 (14)	15.14 ± 0.26	99.28	159 (12)
PND10	20.92 ± 0.37	179 (14)	20.73 ± 0.51	99.09	163 (12)	21.21 ± 0.38	101.40	184 (14)	20.67 ± 0.31	98.82	159 (12)
PND13	26.76 ± 0.35	178 (14)	26.53 ± 0.51	99.14	162 (12)	26.91 ± 0.37	100.55	182 (14)	26.08 ± 0.38	97.45	159 (12)
PND16	31.67 ± 0.33 **	178 (14)	31.62 ± 0.59	99.85	162 (12)	31.90 ± 0.46	100.73	181 (14)	29.92 ± 0.40 *	94.47	159 (12)
PND19	39.58 ± 0.67 **	178 (14)	39.30 ± 0.88	99.29	162 (12)	39.48 ± 0.88	99.75	182 (14)	35.28 ± 0.56 **	89.14	159 (12)
PND21	48.13 ± 0.64 **	178 (14)	48.00 ± 0.98	99.74	162 (12)	48.35 ± 0.82	100.46	182 (14)	42.88 ± 0.77 **	89.09	159 (12)
PND25	65.80 ± 0.87 **	178 (14)	65.22 ± 1.18	99.12	162 (12)	66.37 ± 1.12	100.86	182 (14)	60.01 ± 1.22 **	91.20	159 (12)
PND28	82.28 ± 0.97 **	178 (14)	79.84 ± 1.21	97.04	162 (12)	81.64 ± 1.53	99.21	182 (14)	75.30 ± 1.43 **	91.52	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

Pup weights are adjusted for covariate litter size using total live on PND 1.

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 ****