

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

**R03: Summary of Litter Data**  
**Test Compound:** Thallium (I) Sulfate  
**CAS Number:** 7446-18-6

**Date Report Requested:** 05/20/2020  
**Time Report Requested:** 12:45:42  
**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 Pups from F0 Females

Treatment Groups (mg/L)

	0	3.13	6.25	12.5	25
No. F0 Dams					
PND 0	17	12	17	12	4
Total No. Pups					
PND 0	225	170	230	167	55
Total Pups per Litter					
PND 0	13.2 ± 0.4 (17)	14.2 ± 0.4 (12)	13.5 ± 0.5 (17)	13.9 ± 0.5 (12)	13.8 ± 0.5 (4)
Total No. Live					
PND 0	223	165	224	160	
Live per Litter					
PND 0	13.1 ± 0.4 (17)	13.8 ± 0.4 (12)	13.2 ± 0.5 (17)	13.3 ± 0.6 (12)	0
PND 1	13.0 ± 0.4 (17)	13.7 ± 0.3 (12)	13.1 ± 0.5 (17)	13.3 ± 0.6 (12)	0
PND 4	13.0 ± 0.4 (17)	13.7 ± 0.3 (12)	13.1 ± 0.5 (17)	13.3 ± 0.6 (12)	0
PND 7	12.9 ± 0.5 (14)	13.7 ± 0.3 (12)	13.3 ± 0.5 (14)	13.3 ± 0.6 (12)	0
PND 10	12.7 ± 0.5 (14)	13.6 ± 0.3 (12)	13.1 ± 0.5 (14)	13.3 ± 0.6 (12)	0
PND 13	12.7 ± 0.5 (14)	13.5 ± 0.3 (12)	13.0 ± 0.5 (14)	13.3 ± 0.6 (12)	0
PND 16	12.7 ± 0.5 (14)	13.5 ± 0.3 (12)	13.0 ± 0.5 (14)	13.3 ± 0.6 (12)	0
PND 19	12.7 ± 0.5 (14)	13.5 ± 0.3 (12)	13.0 ± 0.5 (14)	13.3 ± 0.6 (12)	0
PND 21	12.7 ± 0.5 (14)	13.5 ± 0.3 (12)	13.0 ± 0.5 (14)	13.3 ± 0.6 (12)	0
PND 25	12.7 ± 0.5 (14)	13.5 ± 0.3 (12)	13.0 ± 0.5 (14)	13.3 ± 0.6 (12)	0
PND 28	12.7 ± 0.5 (14)	13.5 ± 0.3 (12)	13.0 ± 0.5 (14)	13.3 ± 0.6 (12)	0
Dead per Litter					
PND 0	0.12 ± 0.08 (17) **	0.42 ± 0.19 (12)	0.35 ± 0.17 (17)	0.58 ± 0.36 (12)	13.75 ± 0.48 (4) **
PND 1 - 4	0.12 ± 0.08 (17)	0.08 ± 0.08 (12)	0.06 ± 0.06 (17)	0.08 ± 0.08 (12)	0
PND 4 - 28	0.14 ± 0.10 (14)	0.17 ± 0.11 (12)	0.29 ± 0.13 (14)	0.00 ± 0.00 (12)	0
Number of Dead					
PND 0	2 (2)	5 (4)	6 (4)	7 (3)	55 (4)
PND 1 - 4	2 (2)	1 (1)	1 (1)	1 (1)	0

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**F1 Pups from F0 Females**

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**Treatment Groups (mg/L)**

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	<b>0</b>	<b>3.13</b>	<b>6.25</b>	<b>12.5</b>	<b>25</b>
PND 4 - 28	2 (2)	2 (2)	4 (4)	0 (0)	0
% Live Male Pups per Litter					
PND 0	44.58 ± 2.25 (17)	48.86 ± 3.84 (12)	47.30 ± 3.58 (17)	50.71 ± 3.37 (12)	0
Survival Ratio					
PND 0	0.99 ± 0.01 (17) **	0.97 ± 0.01 (12)	0.97 ± 0.01 (17)	0.96 ± 0.03 (12)	0.00 ± 0.00 (4) **
PND 1 - 4	0.99 ± 0.01 (17)	0.99 ± 0.01 (12)	0.99 ± 0.01 (17)	0.99 ± 0.01 (12)	0
PND 4 - 28	0.99 ± 0.01 (14)	0.99 ± 0.01 (12)	0.98 ± 0.01 (14)	1.00 ± 0.00 (12)	0

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## LEGEND

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Total No. of Pups and Total Pups per Litter is inclusive of nonviable pups.

Data are displayed as the means and standard errors of the litter means, N is number of litters

F1 Total Pups per Litter, Live per Litter, Dead per Litter, % Live Male Pups per Litter, and Survival Ratio endpoints were analyzed using Jonckheere's test for trend and Shirley's or Dunn's methods for pairwise comparison of controls to dose groups.

For Number of Dead, N is displayed as the number of pups (number of litters contributing dead pups).

All calculations are based on the last litter observation of the day

Survival ratio on PND 0 is live pup count at the last PND 0 litter observation relative to the total number of pups upon completion of parturition.

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 \*\***