

Study Number: C15011B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Rat/Harlan Sprague Dawley

R03: Summary of Litter Data
Test Compound: 2-Ethyltoluene
CAS Number: 611-14-3

Date Report Requested: 03/29/2021
Time Report Requested: 14:35:42
Lab: Battelle

Study Number: C15011B-01
Study Gender: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.1.9

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F1 Pups from F0 Females

Treatment Groups (ppm)

	0	150	300	600	900
No. F0 Dams					
PND 0	12	12	11	11	6
Total No. Pups					
PND 0	158	161	135	131	55
Total Pups per Litter					
PND 0	13.2 ± 0.6 (12) *	13.4 ± 0.6 (12)	12.3 ± 0.5 (11)	11.9 ± 1.1 (11)	9.2 ± 2.0 (6)
Total No. Live					
PND 0	155	150	123	124	54
Live per Litter					
PND 0	12.9 ± 0.7 (12) *	12.5 ± 0.8 (12)	11.2 ± 0.6 (11)	11.3 ± 1.1 (11)	9.0 ± 2.0 (6)
PND 1	12.8 ± 0.7 (12) *	12.4 ± 0.8 (12)	10.8 ± 0.7 (11)	11.3 ± 1.1 (11)	8.5 ± 1.9 (6)
PND 4	12.8 ± 0.7 (12) **	12.3 ± 0.7 (12)	10.8 ± 0.7 (11)	11.1 ± 1.2 (11)	8.2 ± 1.8 (6) *
PND 4 post-cull	8.0 ± 0.0 (12) **	8.0 ± 0.0 (12)	8.0 ± 0.0 (11)	7.6 ± 0.4 (11)	6.2 ± 0.9 (6) **
PND 7	8.0 ± 0.0 (12) **	8.0 ± 0.0 (12)	7.9 ± 0.1 (11)	7.6 ± 0.4 (11)	6.2 ± 0.9 (6) **
PND 10	8.0 ± 0.0 (12) **	8.0 ± 0.0 (12)	7.9 ± 0.1 (11)	7.6 ± 0.4 (11)	6.2 ± 0.9 (6) **
PND 13	8.0 ± 0.0 (12) **	8.0 ± 0.0 (12)	7.9 ± 0.1 (11)	7.6 ± 0.4 (11)	6.2 ± 0.9 (6) **
PND 16	8.0 ± 0.0 (12) **	8.0 ± 0.0 (12)	7.9 ± 0.1 (11)	7.6 ± 0.4 (11)	6.2 ± 0.9 (6) **
PND 19	8.0 ± 0.0 (12) **	8.0 ± 0.0 (12)	7.9 ± 0.1 (11)	7.6 ± 0.4 (11)	6.2 ± 0.9 (6) **
PND 21	7.9 ± 0.1 (12) *	8.0 ± 0.0 (12)	7.9 ± 0.1 (11)	7.6 ± 0.4 (11)	6.2 ± 0.9 (6) *
Dead per Litter					
PND 0	0.25 ± 0.13 (12)	0.92 ± 0.26 (12)	1.09 ± 0.34 (11)	0.64 ± 0.36 (11)	0.17 ± 0.17 (6)
PND 1 - 4	0.08 ± 0.08 (12)	0.17 ± 0.11 (12)	0.36 ± 0.20 (11)	0.18 ± 0.12 (11)	0.83 ± 0.65 (6)
PND 5 - 21	0.08 ± 0.08 (12)	0.00 ± 0.00 (12)	0.09 ± 0.09 (11)	0.00 ± 0.00 (11)	0.00 ± 0.00 (6)
Number of Dead					
PND 0	3 (3)	11 (8)	12 (8)	7 (4)	1 (1)
PND 1 - 4	1 (1)	2 (2)	4 (3)	2 (2)	5 (2)
PND 5 - 21	1 (1)	0 (0)	1 (1)	0 (0)	0 (0)

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Treatment Groups (ppm)

	0	150	300	600	900
% Live Male Pups per Litter					
PND 0	49.20 ± 2.73 (12)	40.00 ± 4.33 (12)	50.07 ± 5.32 (11)	48.34 ± 3.86 (11)	33.13 ± 5.42 (6)
Survival Ratio					
PND 0	0.98 ± 0.01 (12)	0.92 ± 0.02 (12)	0.91 ± 0.03 (11)	0.95 ± 0.03 (11)	0.97 ± 0.03 (6)
PND 1 - 4	0.99 ± 0.01 (12)	0.99 ± 0.01 (12)	0.97 ± 0.02 (11)	0.98 ± 0.01 (11)	0.93 ± 0.05 (6)
PND 5 - 21	0.99 ± 0.01 (12)	1.00 ± 0.00 (12)	0.99 ± 0.01 (11)	1.00 ± 0.00 (11)	1.00 ± 0.00 (6)

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LEGEND

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

No trend or pairwise tests were conducted on the Total Number of Pups, Total Number of Live, or Number of Dead endpoints.

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 ****