

Study Number: MOG10866
Test Type: MOG - Range Finding
Route: Dosing in Feed
Species/Strain: Rat/Harlan Sprague Dawley

R03: Summary of Litter Data
Test Compound: Isopropylated Phenyl Phosphate
CAS Number: 68937-41-7

Date Report Requested: 02/22/2021
Time Report Requested: 06:47:54
Lab: Battelle

Study Number: MOG10866
Study Gender: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.1.7

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F1 Pups from F0 Females

Treatment Groups (ppm)

	0	1000	3000	10000	15000
No. F0 Dams					
PND 0	12	17	12	12	8
Total No. Pups					
PND 0	145	209	130	128	70
Total Pups per Litter					
PND 0	12.1 ± 1.2 (12) **	12.3 ± 0.5 (17)	10.8 ± 0.9 (12)	10.7 ± 1.1 (12)	8.8 ± 1.0 (8) *
Total No. Live					
PND 0	143	178	109	105	35
Live per Litter					
PND 0	13.0 ± 0.7 (11) *	10.5 ± 0.6 (17)	9.9 ± 0.9 (11)	10.5 ± 1.0 (10)	7.0 ± 2.1 (5) *
PND 1	13.0 ± 0.7 (11) **	10.4 ± 0.6 (17) *	9.4 ± 1.1 (11) **	6.3 ± 1.0 (8) **	2.0 (1)
PND 4	12.3 ± 0.7 (11) **	9.9 ± 0.8 (17)	8.1 ± 1.3 (10) *	6.0 ± 1.4 (5) **	
PND 7	12.3 ± 0.7 (11) **	9.9 ± 0.8 (17)	8.6 ± 1.1 (9) *	5.4 ± 1.6 (5) **	
PND 10	12.2 ± 0.7 (11) **	9.8 ± 0.7 (17)	8.3 ± 1.2 (9) *	4.8 ± 1.7 (5) **	
PND 14	12.2 ± 0.7 (11) **	9.5 ± 0.7 (17) *	8.3 ± 1.2 (9) *	4.8 ± 1.7 (5) **	
PND 17	12.2 ± 0.7 (11) **	9.4 ± 0.7 (17) *	8.3 ± 1.2 (9) *	4.8 ± 1.7 (5) **	
PND 21	12.2 ± 0.7 (11) **	9.4 ± 0.7 (17) *	8.3 ± 1.2 (9) *	4.8 ± 1.7 (5) **	
PND 24	12.2 ± 0.7 (11) **	9.4 ± 0.7 (17) *	8.3 ± 1.2 (9) *	4.8 ± 1.7 (5) **	
PND 28	12.2 ± 0.7 (11) **	9.4 ± 0.7 (17) *	8.3 ± 1.2 (9) *	4.8 ± 1.7 (5) **	
Dead per Litter					
PND 0	0.17 ± 0.11 (12) **	1.82 ± 0.41 (17) *	1.75 ± 0.73 (12) *	1.92 ± 0.88 (12) *	4.38 ± 1.21 (8) **
PND 1 - 4	0.18 ± 0.12 (11) **	0.18 ± 0.10 (17)	2.55 ± 1.00 (11) *	7.50 ± 1.59 (10) **	5.75 ± 2.21 (4) **
PND 5 - 28	0.09 ± 0.09 (11) *	0.53 ± 0.31 (17)	0.60 ± 0.22 (10)	1.20 ± 0.58 (5)	
Number of Dead					
PND 0	2 (2)	31 (13)	21 (7)	23 (7)	35 (6)
PND 1 - 4	2 (2)	3 (3)	28 (6)	75 (9)	23 (4)
PND 5 - 28	1 (1)	9 (4)	6 (5)	6 (3)	0

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F1 Pups from F0 Females

Treatment Groups (ppm)

	0	1000	3000	10000	15000
% Live Male Pups per Litter					
PND 0	44.65 ± 5.94 (11)	54.68 ± 3.45 (17)	39.25 ± 5.92 (11)	51.10 ± 3.45 (10)	53.11 ± 15.94 (5)
Survival Ratio					
PND 0	0.91 ± 0.08 (12) **	0.85 ± 0.03 (17) *	0.82 ± 0.08 (12) *	0.74 ± 0.12 (12) *	0.40 ± 0.16 (8) **
PND 1 - 4	0.99 ± 0.01 (11) **	0.98 ± 0.01 (17)	0.72 ± 0.12 (11) *	0.29 ± 0.12 (10) **	0.00 ± 0.00 (4) **
PND 5 - 28	0.99 ± 0.01 (11) **	0.96 ± 0.03 (17)	0.83 ± 0.10 (10) *	0.74 ± 0.14 (5) *	

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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

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).

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

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 $P \leq 0.01$

The 30,000 ppm group was terminated on GD12, and the 15,000 ppm group was terminated by LD3/PND3 due to excessive toxicity.

Three dams were removed from the control, 1,000, and 10,000 ppm groups for biological sample collection on GD18, and one pup per sex was selected from each of three dams from the 0 and 1,000 ppm groups on PND4.

**** END OF REPORT ****