

Study Number: MOG003B

Test Type: MOG

Route: Dosing in Feed

Species/Strain: Rat/Sprague-Dawley

C Number:

Study Gender:

PWG Approval Date

R03: Summary of Litter Data

Test Compound: 2-Ethylhexyl p-Methoxycinnamate

CAS Number: 5466-77-3

MOG003B

Both

See web page for date of PWG Approval

Date Report Requested: 01/27/2020

Time Report Requested: 12:45:07

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F1 Pups from F0 Females

	Treatment Groups (ppm)			
	0	1000	3000	6000
No. F0 Dams				
PND 0	22	24	19	22
Total No. Pups				
PND 0	246	317	230	249
Total Pups per Litter				
PND 0	11.2 ± 0.7 (22)	13.2 ± 0.4 (24) *	12.1 ± 0.4 (19)	11.3 ± 0.7 (22)
Total No. Live				
PND 0	237	312	222	245
Live per Litter				
PND 0	10.8 ± 0.7 (22)	13.0 ± 0.4 (24) *	11.7 ± 0.4 (19)	11.1 ± 0.7 (22)
PND 1	10.7 ± 0.7 (22)	13.0 ± 0.4 (24) *	11.6 ± 0.4 (19)	11.1 ± 0.7 (22)
PND 4	10.7 ± 0.7 (21)	12.9 ± 0.4 (24) *	11.5 ± 0.4 (19)	10.9 ± 0.7 (22)
PND 4 post-cull	8.9 ± 0.4 (21)	9.9 ± 0.1 (24)	9.8 ± 0.2 (19)	9.1 ± 0.4 (22)
PND 7	8.9 ± 0.4 (21)	9.9 ± 0.1 (24)	9.8 ± 0.2 (19)	9.0 ± 0.4 (22)
PND 10	8.9 ± 0.4 (21)	9.8 ± 0.1 (24)	9.8 ± 0.2 (19)	9.0 ± 0.4 (22)
PND 13	8.9 ± 0.4 (21)	9.7 ± 0.1 (24)	9.8 ± 0.2 (19)	8.9 ± 0.4 (22)
PND 16	8.9 ± 0.4 (21)	9.7 ± 0.1 (24)	9.8 ± 0.2 (19)	8.9 ± 0.4 (22)
PND 19	8.9 ± 0.4 (21)	9.7 ± 0.1 (24)	9.8 ± 0.2 (19)	8.9 ± 0.4 (22)
PND 21	8.9 ± 0.4 (21)	9.7 ± 0.1 (24)	9.8 ± 0.2 (19)	8.9 ± 0.4 (22)
PND 25	8.9 ± 0.4 (21)	9.7 ± 0.1 (24)	9.8 ± 0.2 (19)	8.9 ± 0.4 (22)
PND 28	8.9 ± 0.4 (21)	9.7 ± 0.1 (24)	9.7 ± 0.2 (19)	8.9 ± 0.4 (22)
Dead per Litter				
PND 0	0.41 ± 0.16 (22)	0.21 ± 0.08 (24)	0.42 ± 0.18 (19)	0.18 ± 0.11 (22)
PND 1 - 4	0.55 ± 0.37 (22)	0.13 ± 0.07 (24)	0.16 ± 0.09 (19)	0.23 ± 0.09 (22)
PND 5 - 28	0.05 ± 0.05 (21)	0.17 ± 0.10 (24)	0.05 ± 0.05 (19)	0.23 ± 0.11 (22)
Number of Dead				
PND 0	9 (6)	5 (5)	8 (6)	4 (3)

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F1 Pups from F0 Females

Treatment Groups (ppm)

	0	1000	3000	6000
PND 1 - 4	12 (4)	3 (3)	3 (3)	5 (5)
PND 5 - 28	1 (1)	4 (3)	1 (1)	5 (4)
% Live Male Pups per Litter				
PND 0	57.11 ± 3.34 (22)	48.94 ± 2.94 (24)	49.98 ± 2.55 (19)	49.80 ± 3.27 (22)
Survival Ratio				
PND 0	0.96 ± 0.02 (22)	0.98 ± 0.01 (24)	0.97 ± 0.01 (19)	0.98 ± 0.01 (22)
PND 1 - 4	0.94 ± 0.05 (22)	0.99 ± 0.01 (24)	0.99 ± 0.01 (19)	0.98 ± 0.01 (22)
PND 5 - 28	0.99 ± 0.01 (21)	0.98 ± 0.01 (24)	0.99 ± 0.01 (19)	0.97 ± 0.01 (22)

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F2 Pups from F1 Fertility Females

	Treatment Groups (ppm)			
	0	1000	3000	6000
No. F0 Dams				
PND 0	18	23	18	18
No. F1 Dams				
PND 0	26	34	24	26
Total No. Pups				
PND 0	396	464	382	363
Total Pups per Litter				
PND 0	15.3 ± 0.8 (18)	13.6 ± 0.8 (23)	16.1 ± 0.6 (18)	13.7 ± 0.9 (18)
Total No. Live				
PND 0	366	441	359	339
Live per Litter				
PND 0	14.1 ± 0.8 (18)	13.0 ± 0.7 (23)	15.0 ± 0.6 (18)	13.1 ± 0.8 (18)
PND 1	13.8 ± 1.0 (18)	13.0 ± 0.7 (22)	14.7 ± 0.6 (18)	12.8 ± 0.8 (18)
PND 4	13.5 ± 0.9 (18)	13.1 ± 0.7 (22)	14.0 ± 0.8 (18)	12.5 ± 0.8 (18)
PND 4 post-cull	9.4 ± 0.5 (18)	9.4 ± 0.3 (22)	9.6 ± 0.4 (18)	9.3 ± 0.4 (18)
PND 7	8.7 ± 0.7 (18)	8.8 ± 0.4 (22)	9.3 ± 0.4 (16)	8.9 ± 0.6 (18)
PND 10	7.8 ± 0.6 (18)	8.3 ± 0.5 (22)	8.5 ± 0.5 (16)	8.5 ± 0.6 (17)
PND 13	7.4 ± 0.7 (18)	8.2 ± 0.5 (22)	8.0 ± 0.6 (16)	8.4 ± 0.6 (17)
PND 16	7.4 ± 0.7 (18)	8.2 ± 0.5 (22)	8.0 ± 0.6 (16)	8.4 ± 0.6 (17)
PND 19	7.4 ± 0.7 (18)	8.2 ± 0.5 (22)	8.0 ± 0.6 (16)	8.4 ± 0.6 (17)
PND 21	7.4 ± 0.7 (18)	8.2 ± 0.5 (22)	8.0 ± 0.6 (16)	8.4 ± 0.6 (17)
PND 25	7.4 ± 0.7 (18)	8.2 ± 0.5 (22)	8.0 ± 0.6 (16)	8.4 ± 0.6 (17)
PND 28	7.4 ± 0.7 (18)	8.2 ± 0.5 (22)	8.0 ± 0.6 (16)	8.4 ± 0.6 (17)
Dead per Litter				
PND 0	1.21 ± 0.27 (18)	0.59 ± 0.17 (23)	1.06 ± 0.30 (18)	1.00 ± 0.23 (18)
PND 1 - 4	0.56 ± 0.22 (18)	0.85 ± 0.37 (23)	1.08 ± 0.66 (18)	0.61 ± 0.25 (18)
PND 5 - 28	2.03 ± 0.60 (18)	1.27 ± 0.46 (22)	2.53 ± 0.67 (18)	1.39 ± 0.57 (18)

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F2 Pups from F1 Fertility Females

Treatment Groups (ppm)

	0	1000	3000	6000
Number of Dead				
PND 0	30 (16)	23 (15)	23 (9)	24 (17)
PND 1 - 4	13 (7)	26 (12)	33 (9)	18 (10)
PND 5 - 28	44 (16)	43 (10)	52 (16)	38 (11)
% Live Male Pups per Litter				
PND 0	42.24 ± 4.04 (18)	48.60 ± 2.58 (23)	47.89 ± 2.71 (18)	48.30 ± 2.94 (18)
Survival Ratio				
PND 0	0.91 ± 0.02 (18)	0.96 ± 0.01 (23)	0.94 ± 0.02 (18)	0.90 ± 0.03 (18)
PND 1 - 4	0.93 ± 0.04 (18)	0.90 ± 0.05 (23)	0.92 ± 0.05 (18)	0.96 ± 0.02 (18)
PND 5 - 28	0.80 ± 0.06 (18)	0.87 ± 0.05 (22)	0.71 ± 0.08 (18)	0.85 ± 0.06 (18)

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LEGEND

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

For the endpoints of Total Pups per Litter, Live per Litter, Dead per Litter, % Live Male Pups per Litter, and Survival Ratio for the F1 and F2 pups, data are displayed as the mean of litter values \pm SEM of litter values (number of litters produced by F0 dams). For F2 pups, N is number of litters produced by the F0 generation where up to 2 F1 offspring/sex/litter were selected to produce F2 pups through non-sibling mating.

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. The same endpoints for the F2 litters from the F1 Fertility females were analyzed using the bootstrapped Jonckheere test for trend; pairwise comparisons were done using the Datta-Satten modified Wilcoxon test with the Hommel adjustment for multiple comparisons.

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.

Litters were culled to 10 pups (5 males and 5 females when possible).

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 ****