

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

R03: Summary of Litter Data
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 01/07/2021
Time Report Requested: 12:46:45
Lab: RTI

Study Number: MOG08002B
Study Gender: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.1.5

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F1 Pups from F0 Females

	Treatment Groups (ppm)			
	0	338	1125	3750
No. F0 Dams				
PND 0	25	28	29	25
Total No. Pups				
PND 0	329	370	388	330
Total Pups per Litter				
PND 0	13.2 ± 0.7 (25)	13.2 ± 0.6 (28)	13.4 ± 0.3 (29)	13.2 ± 0.4 (25)
Total No. Live				
PND 0	316	333	361	301
Live per Litter				
PND 0	13.2 ± 0.4 (24)	11.9 ± 0.6 (28)	12.9 ± 0.4 (28)	12.5 ± 0.5 (24)
PND 1	13.0 ± 0.4 (24)	11.4 ± 0.7 (28)	12.6 ± 0.4 (28)	11.4 ± 0.7 (23)
PND 4	13.1 ± 0.4 (23) *	11.6 ± 0.6 (27)	12.4 ± 0.4 (28)	10.6 ± 0.8 (23) **
PND 4 post-cull	9.8 ± 0.2 (23)	9.5 ± 0.3 (24)	10.0 ± 0.0 (25)	9.0 ± 0.5 (23)
PND 7	9.8 ± 0.2 (23) *	9.4 ± 0.3 (24)	9.7 ± 0.1 (25)	8.8 ± 0.5 (23) *
PND 10	9.7 ± 0.2 (23) *	9.3 ± 0.4 (24)	9.5 ± 0.2 (25)	9.0 ± 0.4 (22)
PND 13	9.7 ± 0.2 (23) *	9.2 ± 0.4 (24)	9.3 ± 0.3 (25)	8.8 ± 0.4 (22)
PND 16	9.7 ± 0.2 (23)	9.1 ± 0.4 (24)	9.3 ± 0.3 (25)	8.7 ± 0.4 (22)
PND 19	9.7 ± 0.2 (23)	9.1 ± 0.4 (24)	9.3 ± 0.3 (25)	8.6 ± 0.4 (22)
PND 21	9.7 ± 0.2 (23)	9.1 ± 0.4 (24)	9.3 ± 0.3 (25)	8.6 ± 0.4 (22)
PND 25	9.7 ± 0.2 (23)	9.1 ± 0.4 (24)	9.3 ± 0.3 (25)	8.6 ± 0.4 (22)
PND 28	9.7 ± 0.2 (23)	9.0 ± 0.4 (24)	9.2 ± 0.3 (25)	8.6 ± 0.4 (22)
Dead per Litter				
PND 0	0.52 ± 0.12 (25)	1.32 ± 0.58 (28)	0.93 ± 0.36 (29)	1.16 ± 0.48 (25)
PND 1 - 4	0.63 ± 0.50 (24) *	0.71 ± 0.29 (28)	0.46 ± 0.17 (28)	2.42 ± 0.88 (24) *
PND 5 - 28	0.13 ± 0.07 (23) *	0.38 ± 0.29 (24)	0.64 ± 0.26 (25)	0.70 ± 0.22 (23)
Number of Dead				
PND 0	13 (12)	37 (10)	27 (12)	29 (14)

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F1 Pups from F0 Females

Treatment Groups (ppm)

	0	338	1125	3750
PND 1 - 4	15 (3)	20 (9)	13 (8)	58 (12)
PND 5 - 28	3 (3)	9 (3)	16 (7)	16 (9)
% Live Male Pups per Litter				
PND 0	43.01 ± 2.58 (24)	50.64 ± 3.01 (28)	49.27 ± 2.78 (28)	50.58 ± 3.20 (24)
Survival Ratio				
PND 0	0.92 ± 0.04 (25)	0.92 ± 0.03 (28)	0.92 ± 0.04 (29)	0.91 ± 0.04 (25)
PND 1 - 4	0.95 ± 0.04 (24) *	0.92 ± 0.04 (28)	0.96 ± 0.01 (28)	0.82 ± 0.06 (24) *
PND 5 - 28	0.99 ± 0.01 (23) *	0.96 ± 0.03 (24)	0.94 ± 0.03 (25)	0.88 ± 0.05 (23)

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F2 Pups from F1 Fertility Females

	Treatment Groups (ppm)		
	0	338	1125
No. F1 Dams			
PND 0	18	20	9
Total No. Pups			
PND 0	211	239	67
Total Pups per Litter			
PND 0	11.7 ± 1.1 (18)	12.0 ± 0.7 (20)	7.4 ± 1.6 (9)
Total No. Live			
PND 0	201	211	58
Live per Litter			
PND 0	11.2 ± 1.0 (18) *	10.6 ± 0.8 (20)	6.4 ± 1.4 (9) *
PND 1	10.9 ± 1.0 (18) *	11.1 ± 0.6 (19)	6.4 ± 1.4 (9) *
PND 4	10.9 ± 1.0 (18) *	11.1 ± 0.6 (19)	6.4 ± 1.4 (9) *
PND 4 post-cull	7.3 ± 0.4 (18)	7.9 ± 0.1 (19)	5.7 ± 1.1 (9)
PND 7	7.3 ± 0.4 (18)	7.8 ± 0.1 (19)	5.7 ± 1.1 (9)
PND 10	7.3 ± 0.4 (18)	7.8 ± 0.1 (19)	5.3 ± 1.1 (9)
PND 13	7.2 ± 0.4 (18)	7.7 ± 0.1 (19)	5.2 ± 1.1 (9)
PND 16	7.2 ± 0.4 (18)	7.7 ± 0.1 (19)	5.2 ± 1.1 (9)
PND 19	7.2 ± 0.4 (18)	7.7 ± 0.1 (19)	5.2 ± 1.1 (9)
PND 21	7.2 ± 0.4 (18)	7.7 ± 0.1 (19)	5.2 ± 1.1 (9)
PND 25	7.2 ± 0.4 (18)	7.7 ± 0.1 (19)	5.2 ± 1.1 (9)
PND 28	7.2 ± 0.4 (18)	7.7 ± 0.1 (19)	5.2 ± 1.1 (9)
Dead per Litter			
PND 0	0.56 ± 0.20 (18)	1.40 ± 0.29 (20) *	1.00 ± 0.47 (9)
PND 1 - 4	0.22 ± 0.13 (18)	0.05 ± 0.05 (20)	0.00 ± 0.00 (9)
PND 5 - 28	0.06 ± 0.06 (18)	0.16 ± 0.12 (19)	0.44 ± 0.44 (9)
Number of Dead			
PND 0	10 (7)	28 (15)	9 (4)

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F2 Pups from F1 Fertility Females

Treatment Groups (ppm)

	0	338	1125
PND 1 - 4	4 (3)	1 (1)	0 (0)
PND 5 - 28	1 (1)	3 (2)	4 (1)
% Live Male Pups per Litter			
PND 0	35.48 ± 4.24 (18)	48.18 ± 4.81 (20)	48.42 ± 12.15 (9)
Survival Ratio			
PND 0	0.96 ± 0.02 (18)	0.87 ± 0.04 (20) *	0.87 ± 0.06 (9)
PND 1 - 4	0.97 ± 0.02 (18)	0.95 ± 0.05 (20)	1.00 ± 0.00 (9)
PND 5 - 28	0.99 ± 0.01 (18)	0.98 ± 0.01 (19)	0.94 ± 0.06 (9)

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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, data are displayed as the mean \pm SEM of litter values (number of litters contributing).

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.

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 $P \leq 0.01$

The F1 3750 ppm animals were unable to produce a F2 generation, hence this group was not evaluated.

**** END OF REPORT ****