

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

R02: Reproductive Performance Summary

Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 03/20/2020
Time Report Requested: 08:14:57
Lab: RTI

C Number:

MOG08002B

Study Gender:

Both

PWG Approval Date

See web page for date of PWG Approval

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F0 Female

Treatment Groups (ppm)

	0	338	1125	3750
No. Females Mated	35	35	35	35
No. Females Pregnant	30	32	33	29
No. Females Littering	25	28	29	25
Percent of Pregnant Females/Mated	85.7	91.4	94.3	82.9
Percent of Littered Females/Mated	78.1	87.5	90.6	78.1
Percent of Littered Females/Pregnant	92.6	96.6	96.7	96.2
Gestational Length	22.1 ± 0.1 (25) **	22.2 ± 0.1 (28)	22.1 ± 0.1 (29)	22.4 ± 0.1 (25) **

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F1 Female: Fertility Females

Treatment Groups (ppm)

	0	338	1125	3750
No. Females Paired	22	23	21	19
No. Females Mated	22	23	16	1
No. Females Pregnant	18	22	12	0
No. Females Littering	18	20	9	0
Percent of Mated Females/Paired	100.0 **	100.0	76.2 *	5.3 **
Percent of Littered Females/Paired	81.8 **	87.0	42.9 *	0.0 **
Percent of Pregnant Females/Mated	81.8 *	95.7	75.0	0.0
Percent of Littered Females/Mated	81.8 **	87.0	56.3	0.0
Percent of Littered Females/Pregnant	100.0 *	90.9	75.0	
Pre-coital Interval	6.4 ± 0.7 (20) *	5.3 ± 0.9 (20)	4.1 ± 1.2 (13)	1.0 ± 0.0 (1)
Gestational Length	22.6 ± 0.1 (16)	22.7 ± 0.1 (17)	23.3 ± 0.6 (7)	(0)

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F1 Female: Prenatal Females

Treatment Groups (ppm)

	0	338	1125	3750
No. Females Paired	21	21	22	19
No. Females Mated	17	20	19	0
No. Females Pregnant	17	20	18	0
Percent of Mated Females/Paired	81.0 **	95.2	86.4	0.0 **
Percent of Pregnant Females/Mated	100.0	100.0	94.7	
Pre-coital Interval	4.1 ± 0.9 (16)	4.0 ± 0.7 (20)	3.9 ± 0.7 (16)	(0)

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LEGEND

F0 time mated females were vendor provided so endpoints involving number of females paired, and pre-coital interval were not calculated. Pregnancy was defined as evidence of implantation or littering. Vendor's time of confirmation of mating was utilized for calculation of F0 gestational length.

F1 Prenatal females were sectioned prior to littering, so endpoints involving number of females littering, and gestation length were not calculated for this litter.

When reported, pre-coital interval in days is calculated for sperm positive females.

Gestation length in days calculated for sperm positive females that delivered a litter.

Animals that died or were removed from study between mating and littering were excluded from the littered/paired, littered/mated, and littered/pregnant endpoints.

Statistical analysis performed by Cochran-Armitage (trend) and Fisher Exact (pairwise) tests for Percent of Mated Females/Paired; Percent of Littered Females/Paired; Percent of Pregnant Females/Mated; Percent of Littered Females/Mated; Percent of Littered Females/Pregnant endpoints if present.

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests for the Pre-coital Interval and Gestational Length endpoints if present.

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 ****