Study Number:	MOG08002B
Study Gender:	Both
PWG Approval Date:	See web page for date of PWG Approval
Version:	v1.2.0

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

R06: Andrology Summary
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 04/21/2021
Time Report Requested: 14:17:44
Lab: RTI

Male

Generation	Terminal Sac	Cohort		Treatment Groups (ppm)			
				0	338	1125	3750
F1	PND 152 - 154	Fertility Males	No. Examined (Litters)	21 (21)	23 (23)	21 (21)	20 (20)
			Testis Weight (g)	2.039 ± 0.026 **	1.965 ± 0.028	1.876 ± 0.047 **	1.469 ± 0.057 **
			Spermatid Head Count (millions)	246.4 ± 8.5 *	252.6 ± 8.1	237.9 ± 7.2	216.4 ± 9.6
			Spermatid Head Concentration (millions/gram tissue)	120.9 ± 3.9 **	128.5 ± 3.5	128.0 ± 3.9	148.8 ± 6.3 **
			Percent Motile Sperm	65.0 ± 3.6	64.4 ± 2.9	57.5 ± 3.5	63.4 ± 3.8
			Percent Progressively Motile Sperm	53.0 ± 3.1	50.3 ± 2.1	45.7 ± 3.2	50.7 ± 3.3
			Epididymis Weight (g)	0.673 ± 0.009 **	0.648 ± 0.010	0.602 ± 0.013 **	0.405 ± 0.020 **
			Cauda Epididymis Weight (g)	0.262 ± 0.004 **	0.249 ± 0.004	0.222 ± 0.006 **	0.130 ± 0.007 **
			Cauda Epididymis Sperm Count (millions)	221.5 ± 8.3 **	207.5 ± 6.5	179.9 ± 11.4 **	94.0 ± 8.1 **
			Cauda Epididymis Sperm Concentration (millions/gram tissue)	843.4 ± 27.3 **	835.2 ± 26.3	796.9 ± 38.3	704.1 ± 27.1 **

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Generation	Terminal Sac	Cohort		Treatment Groups (ppm)		
				0	338	1125
F2	PND 91 - 93		No. Examined (Litters)	51 (17)	69 (19)	27 (7)
			Testis Weight (g)	2.014 ± 0.023 **	1.855 ± 0.026 **	1.851 ± 0.041 **
			Spermatid Head Count (millions)	262.3 ± 6.2	243.4 ± 5.6 *	250.2 ± 6.0 *
			Spermatid Head Concentration (millions/gram tissue)	130.3 ± 3.0	131.3 ± 2.7	135.7 ± 3.0
			Percent Motile Sperm	64.9 ± 3.7	65.8 ± 1.9	64.5 ± 4.4
			Percent Progressively Motile Sperm	45.4 ± 2.6	45.6 ± 1.6	47.9 ± 3.6
			Epididymis Weight (g)	0.584 ± 0.009 **	0.551 ± 0.009 *	0.501 ± 0.010 **
			Cauda Epididymis Weight (g)	0.211 ± 0.005 **	0.198 ± 0.003 **	0.171 ± 0.005 **
			Cauda Epididymis Sperm Count (millions)	186.6 ± 8.6 **	175.0 ± 6.2	152.9 ± 8.7 *
			Cauda Epididymis Sperm Concentration (millions/gram tissue)	875.3 ± 26.5	880.2 ± 21.2	892.1 ± 34.2

LEGEND

Data are displayed as mean ± SEM.

Statistical analysis of the F1 organ weight endpoints performed using Jonckheere trend test and Williams or Dunnett for pairwise tests. Statistical analysis for all other F1 endpoints performed using Jonckheere trend test and Shirley or Dunn for pairwise tests.

Statistical analysis of F2 organ weight endpoints performed using linear mixed models with the dam ID as the random effect for both trend and pairwise test, and using the Dunnett-Hsu adjustment for multiple comparisons. For endpoints other than organ weights for F2 animals, a bootstrapped Jonckheere trend test was used, and pairwise comparisons were done using the Datta-Satten modified Wilcoxon test with Hommel adjustment for multiple comparisons

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 <= 0.05

** Statistically significant at P <= 0.01

Both spermatid head measurements for one animal in the F1 1125 ppm group, and epididymis weight measurements for one animal in the F2 control group and one animal in the F2 338 ppm group, were excluded as outliers.

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

** END OF REPORT **