

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

**R19: Pup Mean Body Weight Summary**  
**Test Compound:** Bisphenol AF  
**CAS Number:** 1478-61-1

**Date Report Requested:** 09/01/2020  
**Time Report Requested:** 04:45:12  
**Lab:** RTI

**Study Number:**

MOG08002B

**Study Gender:**

Both

**PWG Approval Date**

See web page for date of PWG Approval

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**F1 Males**

**Treatment Groups (ppm)**

Phase Day	0		338			1125			3750		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1 (unadjusted)	6.80 ± 0.09 **	135 (24)	6.76 ± 0.16	99.38	168 (28)	6.20 ± 0.13 **	91.25	178 (28)	6.01 ± 0.17 **	88.42	136 (23)
PND4 (unadjusted)	9.61 ± 0.26 **	135 (24)	9.96 ± 0.26	103.66	164 (27)	8.58 ± 0.21 **	89.34	175 (28)	8.08 ± 0.28 **	84.13	125 (23)
PND1	6.82 ± 0.07 **	135 (24)	6.58 ± 0.17	96.46	168 (28)	6.18 ± 0.12 **	90.57	178 (28)	5.84 ± 0.19 **	85.61	136 (23)
PND4	9.65 ± 0.23 **	135 (24)	9.70 ± 0.20	100.50	164 (27)	8.53 ± 0.18 **	88.40	175 (28)	7.74 ± 0.32 **	80.21	125 (23)
PND4 (postcull)	9.76 ± 0.20 **	104 (23)	9.74 ± 0.25	99.82	118 (24)	8.63 ± 0.20 **	88.44	117 (25)	8.00 ± 0.31 **	82.00	106 (23)
PND7	14.43 ± 0.32 **	104 (23)	14.38 ± 0.41	99.65	118 (24)	12.48 ± 0.35 **	86.52	117 (25)	11.93 ± 0.46 **	82.66	106 (23)
PND10	20.75 ± 0.41 **	103 (23)	20.26 ± 0.61	97.67	116 (24)	17.97 ± 0.56 **	86.60	113 (25)	16.99 ± 0.50 **	81.90	105 (22)
PND13	27.57 ± 0.47 **	102 (23)	26.77 ± 0.73	97.09	115 (24)	24.08 ± 0.56 **	87.33	111 (25)	21.55 ± 0.56 **	78.14	104 (22)
PND16	34.69 ± 0.54 **	102 (23)	33.66 ± 0.74	97.02	113 (24)	30.54 ± 0.61 **	88.03	111 (25)	26.04 ± 0.53 **	75.06	102 (22)
PND19	40.67 ± 0.66 **	102 (23)	39.67 ± 0.74	97.53	113 (24)	35.91 ± 0.71 **	88.28	111 (25)	29.15 ± 0.63 **	71.67	102 (22)
PND21	46.75 ± 0.79 **	102 (23)	45.81 ± 0.92	97.99	113 (24)	41.49 ± 0.87 **	88.75	111 (25)	31.89 ± 0.80 **	68.22	102 (22)
PND25	62.52 ± 1.11 **	102 (23)	61.19 ± 1.15	97.88	113 (24)	55.56 ± 1.13 **	88.87	111 (25)	42.94 ± 1.24 **	68.68	102 (22)
PND28	77.54 ± 1.30 **	102 (23)	76.34 ± 1.38	98.46	113 (24)	68.49 ± 1.31 **	88.33	111 (25)	53.94 ± 1.48 **	69.56	102 (22)

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**F1 Females**

**Treatment Groups (ppm)**

Phase Day	0		338			1125			3750		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1 (unadjusted)	6.53 ± 0.09 **	179 (24)	6.47 ± 0.13	99.20	151 (27)	6.00 ± 0.13 **	91.88	176 (28)	5.68 ± 0.14 **	87.09	127 (22)
PND4 (unadjusted)	9.10 ± 0.26 **	177 (24)	9.42 ± 0.24	103.57	149 (27)	8.43 ± 0.23	92.65	173 (28)	7.80 ± 0.23 **	85.77	118 (22)
PND1	6.57 ± 0.07 **	179 (24)	6.34 ± 0.12	96.46	151 (27)	5.98 ± 0.11 **	91.06	176 (28)	5.56 ± 0.12 **	84.71	127 (22)
PND4	9.17 ± 0.22 **	177 (24)	9.15 ± 0.19	99.78	149 (27)	8.40 ± 0.19 *	91.52	173 (28)	7.57 ± 0.19 **	82.52	118 (22)
PND4 (postcull)	9.25 ± 0.19 **	121 (23)	9.19 ± 0.21	99.32	108 (24)	8.55 ± 0.21	92.43	125 (25)	7.71 ± 0.28 **	83.29	96 (22)
PND7	13.79 ± 0.29 **	121 (23)	13.52 ± 0.39	98.09	108 (24)	12.46 ± 0.35 *	90.42	125 (25)	11.28 ± 0.41 **	81.82	96 (22)
PND10	19.57 ± 0.40 **	121 (23)	19.36 ± 0.56	98.94	105 (24)	17.54 ± 0.53 *	89.61	125 (25)	16.01 ± 0.47 **	81.79	93 (22)
PND13	26.18 ± 0.53 **	121 (23)	25.70 ± 0.63	98.18	105 (24)	23.49 ± 0.52 **	89.74	122 (25)	20.75 ± 0.53 **	79.25	90 (22)
PND16	33.02 ± 0.58 **	120 (23)	32.26 ± 0.63	97.70	105 (24)	29.53 ± 0.60 **	89.43	122 (25)	25.14 ± 0.55 **	76.13	89 (22)
PND19	38.68 ± 0.68 **	120 (23)	38.16 ± 0.65	98.64	105 (24)	34.52 ± 0.67 **	89.25	122 (25)	28.39 ± 0.70 **	73.39	88 (22)
PND21	44.34 ± 0.80 **	120 (23)	43.36 ± 0.84	97.79	105 (24)	39.44 ± 0.87 **	88.96	122 (25)	31.33 ± 0.84 **	70.65	88 (22)
PND25	58.53 ± 1.18 **	120 (23)	56.41 ± 0.95	96.38	105 (24)	52.75 ± 1.20 **	90.11	122 (25)	41.53 ± 1.11 **	70.95	88 (22)
PND28	71.32 ± 1.34 **	120 (23)	69.14 ± 1.13	96.95	104 (24)	64.65 ± 1.31 **	90.65	119 (25)	51.92 ± 1.33 **	72.80	88 (22)

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F1 Pups

Treatment Groups (ppm)

Phase Day	0		338			1125			3750		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1 (unadjusted)	6.65 ± 0.09 **	314 (24)	6.58 ± 0.14	99.04	319 (28)	6.09 ± 0.13 **	91.57	354 (28)	5.83 ± 0.15 **	87.67	263 (23)
PND4 (unadjusted)	9.32 ± 0.26 **	312 (24)	9.69 ± 0.23	104.02	313 (27)	8.48 ± 0.21 *	91.06	348 (28)	7.86 ± 0.26 **	84.39	243 (23)
PND1	6.68 ± 0.07 **	314 (24)	6.40 ± 0.16	95.81	319 (28)	6.06 ± 0.11 **	90.83	354 (28)	5.65 ± 0.16 **	84.58	263 (23)
PND4	9.38 ± 0.22 **	312 (24)	9.43 ± 0.18	100.55	313 (27)	8.44 ± 0.18 **	90.03	348 (28)	7.51 ± 0.31 **	80.11	243 (23)
PND4 (postcull)	9.47 ± 0.18 **	225 (23)	9.46 ± 0.21	99.85	226 (24)	8.59 ± 0.20 *	90.61	242 (25)	7.69 ± 0.34 **	81.21	202 (23)
PND7	14.07 ± 0.28 **	225 (23)	13.97 ± 0.38	99.28	226 (24)	12.45 ± 0.34 **	88.44	242 (25)	11.35 ± 0.51 **	80.68	202 (23)
PND10	20.11 ± 0.39 **	224 (23)	19.83 ± 0.58	98.60	221 (24)	17.71 ± 0.53 **	88.02	238 (25)	16.43 ± 0.45 **	81.68	198 (22)
PND13	26.83 ± 0.47 **	223 (23)	26.24 ± 0.69	97.78	220 (24)	23.75 ± 0.51 **	88.51	233 (25)	21.09 ± 0.52 **	78.61	194 (22)
PND16	33.78 ± 0.53 **	222 (23)	32.98 ± 0.69	97.63	218 (24)	29.97 ± 0.58 **	88.73	233 (25)	25.57 ± 0.51 **	75.71	191 (22)
PND19	39.59 ± 0.64 **	222 (23)	38.93 ± 0.69	98.34	218 (24)	35.15 ± 0.66 **	88.78	233 (25)	28.77 ± 0.65 **	72.67	190 (22)
PND21	45.46 ± 0.76 **	222 (23)	44.63 ± 0.87	98.17	218 (24)	40.39 ± 0.85 **	88.85	233 (25)	31.61 ± 0.80 **	69.53	190 (22)
PND25	60.34 ± 1.09 **	222 (23)	58.81 ± 1.07	97.45	218 (24)	54.02 ± 1.12 **	89.52	233 (25)	42.20 ± 1.13 **	69.94	190 (22)
PND28	74.15 ± 1.24 **	222 (23)	72.79 ± 1.24	98.17	217 (24)	66.39 ± 1.28 **	89.54	230 (25)	52.98 ± 1.35 **	71.45	190 (22)

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**F2 Males**

**Treatment Groups (ppm)**

Phase Day	0		338			1125		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1 (unadjusted)	7.39 ± 0.19	79 (17)	7.11 ± 0.18	96.29	108 (19)	7.32 ± 0.22	99.09	32 (7)
PND4 (unadjusted)	11.30 ± 0.47	79 (17)	10.80 ± 0.36	95.52	108 (19)	10.84 ± 0.53	95.95	32 (7)
PND1	7.32 ± 0.15	79 (17)	7.00 ± 0.16	95.50	108 (19)	6.80 ± 0.25	92.78	32 (7)
PND4	11.13 ± 0.24 **	79 (17)	10.47 ± 0.29	94.09	108 (19)	9.41 ± 0.67 *	84.53	32 (7)
PND4 (postcull)	11.23 ± 0.45	52 (17)	10.78 ± 0.36	96.03	72 (19)	10.65 ± 0.58	94.85	28 (7)
PND7	16.81 ± 0.67	52 (17)	16.33 ± 0.57	97.19	72 (19)	15.49 ± 0.97	92.18	28 (7)
PND10	23.83 ± 0.74	52 (17)	23.14 ± 0.73	97.12	71 (19)	21.61 ± 1.33	90.70	27 (7)
PND13	31.55 ± 0.88	52 (17)	30.66 ± 0.71	97.17	70 (19)	28.13 ± 1.81	89.16	27 (7)
PND16	39.29 ± 1.00 *	52 (17)	37.94 ± 0.61	96.57	70 (19)	34.76 ± 1.85 *	88.45	27 (7)
PND19	46.22 ± 1.23 *	52 (17)	44.98 ± 0.74	97.31	70 (19)	41.20 ± 2.20	89.15	27 (7)
PND21	53.41 ± 1.42 *	52 (17)	52.93 ± 0.98	99.10	70 (19)	47.03 ± 2.54 *	88.06	27 (7)
PND25	72.60 ± 1.84 **	52 (17)	71.78 ± 1.26	98.87	69 (19)	63.28 ± 3.62 *	87.17	27 (7)
PND28	88.86 ± 2.01 **	52 (17)	86.96 ± 1.49	97.86	70 (19)	77.82 ± 4.07 *	87.57	27 (7)

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F2 Females

Treatment Groups (ppm)

Phase Day	0		338			1125		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1 (unadjusted)	7.21 ± 0.19	118 (18)	6.84 ± 0.17	94.82	102 (19)	6.81 ± 0.21	94.41	26 (7)
PND4 (unadjusted)	10.96 ± 0.45	118 (18)	10.21 ± 0.33	93.20	102 (19)	10.16 ± 0.44	92.73	26 (7)
PND1	7.15 ± 0.15 **	118 (18)	6.79 ± 0.14	94.95	102 (19)	6.28 ± 0.32 *	87.82	26 (7)
PND4	10.77 ± 0.24 **	118 (18)	10.06 ± 0.24	93.43	102 (19)	8.54 ± 0.67 **	79.29	26 (7)
PND4 (postcull)	10.76 ± 0.39	79 (18)	10.41 ± 0.30	96.68	77 (19)	9.35 ± 0.64	86.90	23 (7)
PND7	16.37 ± 0.55 *	79 (18)	15.91 ± 0.51	97.23	77 (19)	13.69 ± 1.18	83.62	23 (7)
PND10	23.22 ± 0.68 *	79 (18)	22.76 ± 0.64	98.04	77 (19)	19.36 ± 1.75 *	83.36	21 (7)
PND13	31.08 ± 0.68 **	78 (18)	30.09 ± 0.66	96.80	77 (19)	26.10 ± 1.82 **	83.97	20 (7)
PND16	38.13 ± 0.77 **	78 (18)	37.02 ± 0.63	97.11	77 (19)	32.72 ± 2.02 **	85.81	20 (7)
PND19	44.58 ± 0.91 **	78 (18)	43.64 ± 0.68	97.91	77 (19)	39.60 ± 2.01 *	88.84	20 (7)
PND21	51.36 ± 1.11 **	78 (18)	50.35 ± 0.79	98.04	77 (19)	44.84 ± 2.28 **	87.30	20 (7)
PND25	68.08 ± 1.27 **	78 (18)	66.03 ± 0.97	96.98	77 (19)	59.12 ± 2.43 **	86.84	20 (7)
PND28	81.62 ± 1.31 **	78 (18)	78.23 ± 1.15	95.85	77 (19)	71.69 ± 2.52 **	87.83	20 (7)

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**F2 Pups**

**Treatment Groups (ppm)**

Phase Day	0		338			1125		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1 (unadjusted)	7.28 ± 0.18	197 (18)	6.95 ± 0.17	95.48	210 (19)	7.10 ± 0.19	97.56	58 (9)
PND4 (unadjusted)	11.11 ± 0.44	197 (18)	10.50 ± 0.32	94.50	210 (19)	10.65 ± 0.40	95.86	58 (9)
PND1	7.19 ± 0.14 *	197 (18)	6.88 ± 0.14	95.61	210 (19)	6.47 ± 0.27 *	90.03	58 (9)
PND4	10.84 ± 0.23 **	197 (18)	10.27 ± 0.24	94.72	210 (19)	8.79 ± 0.63 **	81.10	58 (9)
PND4 (postcull)	10.94 ± 0.38	131 (18)	10.57 ± 0.31	96.69	149 (19)	9.88 ± 0.58	90.30	51 (9)
PND7	16.51 ± 0.55	131 (18)	16.13 ± 0.50	97.74	149 (19)	14.42 ± 0.97	87.37	51 (9)
PND10	23.44 ± 0.65 *	131 (18)	22.96 ± 0.61	97.95	148 (19)	20.39 ± 1.38	86.97	48 (9)
PND13	31.16 ± 0.69 **	130 (18)	30.38 ± 0.61	97.48	147 (19)	26.95 ± 1.69 *	86.48	47 (9)
PND16	38.44 ± 0.75 **	130 (18)	37.47 ± 0.57	97.47	147 (19)	33.55 ± 1.86 **	87.27	47 (9)
PND19	45.03 ± 0.90 **	130 (18)	44.25 ± 0.65	98.27	147 (19)	40.13 ± 1.98 *	89.12	47 (9)
PND21	51.95 ± 1.11 **	130 (18)	51.53 ± 0.79	99.18	147 (19)	45.45 ± 2.22 **	87.49	47 (9)
PND25	69.50 ± 1.28 **	130 (18)	68.61 ± 0.92	98.72	146 (19)	60.72 ± 2.87 **	87.37	47 (9)
PND28	84.03 ± 1.32 **	130 (18)	82.30 ± 1.10	97.94	147 (19)	74.38 ± 3.16 **	88.52	47 (9)

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#### LEGEND

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N = the number of pups (number of litters)

Data are displayed as the means and standard errors of the litter means.

PND - Postnatal Day, pups pre-weaning

Statistical analysis performed using mixed models, with litter as random effect for both trend and pairwise tests, and using Dunnett-Hsu adjustments for multiple comparisons.

Pup weights are adjusted for covariate litter size for all postnatal days. Total live on PND 1 for day 1 to cull day, and number of live pups after culling for later weight days. Unadjusted pup weights may also be reported for select postnatal days.

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  $P \leq 0.01$

Pup weights were excluded as outliers for the F1 338 ppm group for one female pup on PND 10; and for one F2 male pup on PND 25 in the 338 ppm group, along with the weight gain intervals bounded by these excluded observations, for both the combined sex ("Pup") and separate sex analyses.

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

**\*\* END OF REPORT \*\***