

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

R19G: Pup Mean Body Weight Gain
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 09/01/2020
Time Report Requested: 04:45:55
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	Days	0		338		1125		3750	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4 (unadjusted)	2.81 ± 0.23 **	135 (24)	3.11 ± 0.14	164 (27)	2.37 ± 0.14	175 (28)	2.09 ± 0.17 *	125 (23)
	1 - 4	2.83 ± 0.22 **	135 (24)	3.00 ± 0.11	164 (27)	2.35 ± 0.13	175 (28)	1.93 ± 0.19 **	125 (23)
	4 - 7	4.67 ± 0.18 *	104 (23)	4.64 ± 0.20	118 (24)	3.85 ± 0.23 *	117 (25)	3.93 ± 0.18 *	106 (23)
	7 - 10	6.27 ± 0.19 **	103 (23)	5.92 ± 0.35	116 (24)	5.36 ± 0.31	113 (25)	4.86 ± 0.22 **	105 (22)
	10 - 13	6.84 ± 0.14 **	102 (23)	6.40 ± 0.27	115 (24)	6.00 ± 0.19 **	111 (25)	4.51 ± 0.21 **	104 (22)
	13 - 16	7.12 ± 0.15 **	102 (23)	6.72 ± 0.23	113 (24)	6.46 ± 0.22 *	111 (25)	4.43 ± 0.18 **	102 (22)
	16 - 19	5.98 ± 0.27 **	102 (23)	6.02 ± 0.22	113 (24)	5.37 ± 0.24	111 (25)	3.11 ± 0.21 **	102 (22)
	19 - 21	6.07 ± 0.29 **	102 (23)	6.14 ± 0.33	113 (24)	5.58 ± 0.30	111 (25)	2.74 ± 0.25 **	102 (22)
	21 - 25	15.77 ± 0.56 **	102 (23)	15.39 ± 0.50	113 (24)	14.07 ± 0.51	111 (25)	11.05 ± 0.63 **	102 (22)
	25 - 28	15.02 ± 0.40 **	102 (23)	15.15 ± 0.57	113 (24)	12.93 ± 0.52 *	111 (25)	11.00 ± 0.34 **	102 (22)
	4 - 28	67.77 ± 1.16 **	102 (23)	66.60 ± 1.29	113 (24)	59.79 ± 1.18 **	111 (25)	45.82 ± 1.32 **	102 (22)

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F1 Females

Treatment Groups (ppm)

Phase	Days	0		338		1125		3750	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4 (unadjusted)	2.56 ± 0.22 **	177 (24)	2.93 ± 0.14	149 (27)	2.42 ± 0.13	173 (28)	2.11 ± 0.13	118 (22)
	1 - 4	2.60 ± 0.21 **	177 (24)	2.80 ± 0.10	149 (27)	2.41 ± 0.12	173 (28)	2.00 ± 0.12 *	118 (22)
	4 - 7	4.53 ± 0.16 **	121 (23)	4.33 ± 0.23	108 (24)	3.91 ± 0.22	125 (25)	3.57 ± 0.18 **	96 (22)
	7 - 10	5.79 ± 0.19 **	121 (23)	5.79 ± 0.28	105 (24)	5.07 ± 0.27	125 (25)	4.63 ± 0.21 **	93 (22)
	10 - 13	6.61 ± 0.21 **	121 (23)	6.30 ± 0.21	104 (24)	5.78 ± 0.14 **	122 (25)	4.64 ± 0.23 **	90 (22)
	13 - 16	6.70 ± 0.17 **	120 (23)	6.56 ± 0.14	105 (24)	6.04 ± 0.24 *	122 (25)	4.25 ± 0.26 **	89 (22)
	16 - 19	5.66 ± 0.23 **	120 (23)	5.89 ± 0.33	105 (24)	4.99 ± 0.20	122 (25)	3.10 ± 0.20 **	88 (22)
	19 - 21	5.65 ± 0.23 **	120 (23)	5.20 ± 0.45	105 (24)	4.92 ± 0.30	122 (25)	2.94 ± 0.23 **	88 (22)
	21 - 25	14.20 ± 0.56 **	120 (23)	13.06 ± 0.53	105 (24)	13.30 ± 0.54	122 (25)	10.20 ± 0.51 **	88 (22)
	25 - 28	12.78 ± 0.39 **	120 (23)	12.78 ± 0.56	104 (24)	11.86 ± 0.63	119 (25)	10.38 ± 0.33 **	88 (22)
	4 - 28	62.05 ± 1.21 **	120 (23)	59.93 ± 1.00	104 (24)	56.09 ± 1.18 **	119 (25)	44.15 ± 1.18 **	88 (22)

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F1 Pups

Treatment Groups (ppm)

Phase	Days	0		338		1125		3750	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4 (unadjusted)	2.66 ± 0.22 **	312 (24)	3.03 ± 0.14	313 (27)	2.39 ± 0.12	348 (28)	2.04 ± 0.15 *	243 (23)
	1 - 4	2.69 ± 0.21 **	312 (24)	2.90 ± 0.10	313 (27)	2.37 ± 0.11	348 (28)	1.87 ± 0.18 **	243 (23)
	4 - 7	4.60 ± 0.15 **	225 (23)	4.51 ± 0.21	226 (24)	3.86 ± 0.22 *	242 (25)	3.66 ± 0.20 **	202 (23)
	7 - 10	6.02 ± 0.17 **	224 (23)	5.85 ± 0.32	221 (24)	5.19 ± 0.28	238 (25)	4.69 ± 0.20 **	198 (22)
	10 - 13	6.73 ± 0.17 **	223 (23)	6.36 ± 0.23	219 (24)	5.87 ± 0.15 **	233 (25)	4.57 ± 0.21 **	194 (22)
	13 - 16	6.88 ± 0.15 **	222 (23)	6.65 ± 0.18	218 (24)	6.23 ± 0.23 *	233 (25)	4.38 ± 0.22 **	191 (22)
	16 - 19	5.81 ± 0.24 **	222 (23)	5.95 ± 0.26	218 (24)	5.18 ± 0.22	233 (25)	3.12 ± 0.21 **	190 (22)
	19 - 21	5.87 ± 0.24 **	222 (23)	5.70 ± 0.36	218 (24)	5.25 ± 0.27	233 (25)	2.84 ± 0.23 **	190 (22)
	21 - 25	14.88 ± 0.53 **	222 (23)	14.17 ± 0.52	218 (24)	13.62 ± 0.49	233 (25)	10.59 ± 0.53 **	190 (22)
	25 - 28	13.80 ± 0.38 **	222 (23)	14.00 ± 0.53	217 (24)	12.34 ± 0.54	230 (25)	10.77 ± 0.30 **	190 (22)
4 - 28	64.66 ± 1.11 **	222 (23)	63.32 ± 1.14	217 (24)	57.77 ± 1.15 **	230 (25)	45.06 ± 1.21 **	190 (22)	

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F2 Males

Treatment Groups (ppm)

Phase	Days	0		338		1125	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4 (unadjusted)	3.92 ± 0.31	79 (17)	3.68 ± 0.22	108 (19)	3.53 ± 0.43	32 (7)
	1 - 4	3.81 ± 0.14 **	79 (17)	3.48 ± 0.19	108 (19)	2.61 ± 0.52 **	32 (7)
	4 - 7	5.58 ± 0.29	52 (17)	5.55 ± 0.27	72 (19)	4.84 ± 0.47	28 (7)
	7 - 10	7.01 ± 0.17 *	52 (17)	6.79 ± 0.24	71 (19)	5.97 ± 0.50	27 (7)
	10 - 13	7.72 ± 0.27 *	52 (17)	7.32 ± 0.12	70 (19)	6.51 ± 0.52 *	27 (7)
	13 - 16	7.74 ± 0.22 *	52 (17)	7.29 ± 0.27	70 (19)	6.62 ± 0.28 *	27 (7)
	16 - 19	6.93 ± 0.30	52 (17)	7.03 ± 0.32	70 (19)	6.45 ± 0.37	27 (7)
	19 - 21	7.19 ± 0.38 *	52 (17)	7.95 ± 0.34	70 (19)	5.83 ± 0.47	27 (7)
	21 - 25	19.18 ± 0.52 *	52 (17)	18.85 ± 0.45	69 (19)	16.25 ± 1.12 *	27 (7)
	25 - 28	16.27 ± 0.29 *	52 (17)	15.19 ± 0.34	69 (19)	14.54 ± 0.58 *	27 (7)
	4 - 28	77.63 ± 1.64 **	52 (17)	76.12 ± 1.20	70 (19)	67.07 ± 3.63 **	27 (7)

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F2 Females

Treatment Groups (ppm)

Phase	Days	0		338		1125	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4 (unadjusted)	3.75 ± 0.29	118 (18)	3.38 ± 0.21	102 (19)	3.35 ± 0.44	26 (7)
	1 - 4	3.62 ± 0.12 **	118 (18)	3.28 ± 0.17	102 (19)	2.26 ± 0.49 **	26 (7)
	4 - 7	5.60 ± 0.23 *	79 (18)	5.51 ± 0.25	77 (19)	4.33 ± 0.60 *	23 (7)
	7 - 10	6.83 ± 0.21 *	79 (18)	6.86 ± 0.20	77 (19)	5.51 ± 0.73 *	21 (7)
	10 - 13	7.70 ± 0.21 **	78 (18)	7.34 ± 0.13	77 (19)	6.40 ± 0.55 **	20 (7)
	13 - 16	7.04 ± 0.22	78 (18)	6.94 ± 0.25	77 (19)	6.62 ± 0.56	20 (7)
	16 - 19	6.45 ± 0.23	78 (18)	6.62 ± 0.24	77 (19)	6.89 ± 0.45	20 (7)
	19 - 21	6.78 ± 0.28 *	78 (18)	6.71 ± 0.28	77 (19)	5.23 ± 0.62	20 (7)
	21 - 25	16.72 ± 0.36 **	78 (18)	15.68 ± 0.41	77 (19)	14.29 ± 1.16 *	20 (7)
	25 - 28	13.54 ± 0.22	78 (18)	12.20 ± 0.30 **	77 (19)	12.57 ± 0.34	20 (7)
	4 - 28	70.82 ± 1.09 **	78 (18)	67.83 ± 0.94	77 (19)	62.17 ± 1.98 **	20 (7)

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F2 Pups

Treatment Groups (ppm)

Phase	Days	0		338		1125	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4 (unadjusted)	3.83 ± 0.29	197 (18)	3.55 ± 0.20	210 (19)	3.55 ± 0.38	58 (9)
	1 - 4	3.65 ± 0.12 **	197 (18)	3.40 ± 0.16	210 (19)	2.32 ± 0.47 **	58 (9)
	4 - 7	5.57 ± 0.24 *	131 (18)	5.56 ± 0.24	149 (19)	4.55 ± 0.45	51 (9)
	7 - 10	6.91 ± 0.17 *	131 (18)	6.82 ± 0.19	148 (19)	5.78 ± 0.53 *	48 (9)
	10 - 13	7.63 ± 0.22 **	130 (18)	7.33 ± 0.11	147 (19)	6.39 ± 0.45 **	47 (9)
	13 - 16	7.28 ± 0.19	130 (18)	7.09 ± 0.26	147 (19)	6.60 ± 0.36	47 (9)
	16 - 19	6.58 ± 0.23	130 (18)	6.77 ± 0.26	147 (19)	6.58 ± 0.23	47 (9)
	19 - 21	6.93 ± 0.28 *	130 (18)	7.28 ± 0.27	147 (19)	5.33 ± 0.59 *	47 (9)
	21 - 25	17.54 ± 0.30 *	130 (18)	17.10 ± 0.34	146 (19)	15.27 ± 1.21 *	47 (9)
	25 - 28	14.54 ± 0.21	130 (18)	13.65 ± 0.26 *	146 (19)	13.66 ± 0.44	47 (9)
	4 - 28	73.07 ± 1.08 **	130 (18)	71.70 ± 0.86	147 (19)	64.36 ± 2.73 **	47 (9)

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LEGEND

N = the number of pups (number of litters)

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

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.

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.

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 ****