

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

I04G: Mean Body Weight Gain
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 01/29/2021
Time Report Requested: 11:15:36
Lab: RTI

Study Number: MOG08002B
Study Gender: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.1.7

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F0 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
Gestation	3 - 6	13.4 ± 0.8	30	15.0 ± 1.0	32	15.6 ± 1.0	33	13.7 ± 0.9	29
	6 - 9	12.6 ± 0.5 **	30	10.9 ± 0.8	32	3.3 ± 0.8 **	33	-3.8 ± 0.9 **	29
	9 - 12	14.0 ± 0.8 **	30	14.8 ± 0.8	32	10.1 ± 0.9 **	33	7.1 ± 1.5 **	29
	12 - 15	18.2 ± 1.4 **	30	17.9 ± 1.0	32	16.1 ± 0.9	33	11.0 ± 1.0 **	29
	15 - 18	35.6 ± 2.5 **	30	37.7 ± 1.5	32	36.7 ± 1.3	33	32.5 ± 1.7	29
	18 - 21	40.1 ± 2.7 **	27	39.3 ± 1.8	29	29.2 ± 1.6 **	30	26.3 ± 1.6 **	26
	6 - 21	119.3 ± 7.0 **	27	120.6 ± 4.2	29	94.8 ± 2.9 **	30	71.9 ± 4.1 **	26
Lactation	4 - 7	2.4 ± 3.0 **	23	5.7 ± 2.5	24	15.7 ± 2.2 **	25	9.9 ± 2.2 **	23
	7 - 10	17.5 ± 2.9	23	13.0 ± 2.5	24	11.8 ± 1.6	25	10.7 ± 2.2	23
	10 - 13	8.5 ± 2.0 **	23	10.1 ± 1.5	24	3.3 ± 1.8	25	2.4 ± 2.2 *	22
	13 - 16	-0.1 ± 1.5 **	23	-1.0 ± 1.5	24	7.3 ± 2.2 **	25	12.4 ± 2.1 **	22
	16 - 19	-2.9 ± 1.7 *	23	-6.2 ± 1.8	24	0.4 ± 2.6	25	1.0 ± 1.6	22
	19 - 21	-1.1 ± 1.5 *	23	-3.3 ± 1.6	24	-1.3 ± 2.0	25	4.8 ± 1.5 *	22
	21 - 25	-26.9 ± 3.3 **	23	-20.6 ± 3.0	24	-10.6 ± 2.5 **	25	-1.3 ± 1.8 **	22
	25 - 28	4.5 ± 2.9	23	0.6 ± 2.9	24	-1.0 ± 2.2	25	2.0 ± 1.5	22
4 - 28	1.7 ± 2.5 **	23	-1.6 ± 2.6	24	25.4 ± 2.5 **	25	41.6 ± 2.8 **	22	

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F1 Males: All F1 Males

Phase	Days	Treatment Groups (ppm)							
		0		338		1125		3750	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
PND	28 - 35	46.3 ± 0.8 **	54 (22)	43.4 ± 0.7 *	55 (24)	38.1 ± 0.7 **	53 (22)	32.2 ± 0.7 **	50 (20)
	35 - 42	51.4 ± 0.6 **	54 (22)	47.1 ± 0.5 **	55 (24)	39.3 ± 0.7 **	53 (22)	29.4 ± 0.7 **	50 (20)
	42 - 49	49.6 ± 0.8 **	54 (22)	44.3 ± 1.1 **	55 (24)	40.7 ± 1.0 **	53 (22)	25.0 ± 0.7 **	50 (20)
	49 - 56	45.5 ± 0.7 **	54 (22)	43.1 ± 0.9	55 (24)	37.9 ± 0.6 **	53 (22)	19.9 ± 0.6 **	50 (20)
	56 - 63	32.3 ± 0.8 **	54 (22)	33.2 ± 0.7	55 (24)	31.9 ± 0.9	53 (22)	20.1 ± 0.9 **	50 (20)
	63 - 70	26.2 ± 1.0 **	54 (22)	25.0 ± 0.9	55 (24)	22.9 ± 1.0	53 (22)	16.7 ± 1.0 **	50 (20)
	70 - 77	18.5 ± 1.0 **	54 (22)	21.8 ± 0.9	55 (24)	18.1 ± 1.2	52 (22)	15.0 ± 0.7 *	50 (20)
	77 - 84	18.2 ± 0.8 **	54 (22)	16.6 ± 0.7	55 (24)	16.1 ± 0.9	52 (22)	11.3 ± 0.5 **	50 (20)
	84 - 91	11.8 ± 0.6 **	54 (22)	12.4 ± 0.8	54 (24)	12.9 ± 0.9	53 (22)	8.0 ± 0.7 *	50 (20)
	28 - 91	299.7 ± 3.0 **	54 (22)	286.9 ± 4.4	54 (24)	257.8 ± 4.1 **	53 (22)	177.5 ± 4.0 **	50 (20)
	91 - 105	20.9 ± 1.3 **	54 (22)	20.6 ± 1.2	54 (24)	18.6 ± 0.9	53 (22)	13.9 ± 1.1 **	50 (20)
	105 - 112	10.5 ± 1.1	54 (22)	8.8 ± 0.9	54 (24)	9.0 ± 1.0	53 (22)	7.7 ± 0.7	50 (20)
	112 - 119	7.5 ± 1.5 **	47 (22)	9.9 ± 1.2	47 (24)	7.4 ± 1.2	46 (22)	4.1 ± 1.2	41 (20)
	119 - 126	12.3 ± 1.5 *	22	8.3 ± 1.0	23	10.5 ± 2.1	21	7.7 ± 1.6	20
	126 - 133	8.4 ± 1.1 **	22	6.4 ± 2.2	23	5.3 ± 1.2	21	3.0 ± 0.8 *	20
	133 - 140	6.0 ± 1.2	22	6.1 ± 1.9	23	5.2 ± 0.9	21	3.8 ± 0.6	20
	140 - 147	4.6 ± 0.8 *	22	6.0 ± 1.2	23	4.6 ± 0.7	21	2.3 ± 0.7	20
	147 - 154	7.3 ± 0.9 *	9	3.6 ± 1.3	5	3.7 ± 2.1	3	4.4	1
112 - 154	41.3 ± 5.8	9	42.6 ± 4.7	5	28.2 ± 10.0	3	46.9	1	
28 - 154	380.6 ± 8.1 **	9	370.8 ± 17.6	5	319.4 ± 22.3 *	3	257.6	1	

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F1 Females: All F1 Females

Phase	Days	Treatment Groups (ppm)							
		0		338		1125		3750	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
PND	28 - 35	35.9 ± 0.7 **	61 (22)	31.5 ± 0.6 **	60 (24)	31.1 ± 0.6 **	53 (22)	28.3 ± 0.6 **	49 (22)
	35 - 42	31.1 ± 0.8 **	54 (22)	29.1 ± 0.6	55 (24)	24.9 ± 0.6 **	53 (22)	23.9 ± 0.6 **	49 (22)
	42 - 49	22.3 ± 0.9 **	54 (22)	20.8 ± 0.7	55 (24)	19.6 ± 0.6 *	53 (22)	17.7 ± 0.5 **	49 (22)
	49 - 56	21.4 ± 1.0 **	54 (22)	18.9 ± 1.0 *	55 (24)	14.8 ± 0.6 **	53 (22)	12.5 ± 0.4 **	49 (22)
	56 - 63	15.9 ± 1.2 **	54 (22)	14.7 ± 0.9	55 (24)	15.3 ± 0.7	53 (22)	9.9 ± 0.5 **	48 (22)
	63 - 70	12.2 ± 1.6 **	53 (22)	12.3 ± 1.3	55 (24)	9.9 ± 0.8	53 (22)	7.8 ± 0.6 **	48 (22)
	70 - 77	11.3 ± 1.4 **	53 (22)	10.3 ± 1.1	55 (24)	8.0 ± 0.7	53 (22)	5.6 ± 1.2 **	48 (22)
	77 - 84	11.1 ± 1.2	53 (22)	9.6 ± 1.3	55 (24)	8.3 ± 0.7	53 (22)	8.2 ± 1.0	48 (22)
	84 - 91	8.2 ± 1.8 *	53 (22)	6.5 ± 1.1	55 (24)	7.0 ± 0.8	53 (22)	4.6 ± 0.5 *	48 (22)
	28 - 91	168.8 ± 2.9 **	53 (22)	154.4 ± 3.1 **	55 (24)	138.7 ± 1.9 **	53 (22)	118.4 ± 1.6 **	48 (22)
	91 - 98	4.6 ± 1.4	53 (22)	3.4 ± 1.0	55 (24)	3.9 ± 0.9	53 (22)	2.7 ± 0.5	48 (22)
	28 - 98	173.3 ± 2.9 **	53 (22)	157.8 ± 3.1 **	55 (24)	142.6 ± 2.1 **	53 (22)	121.2 ± 1.7 **	48 (22)

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F1 Females: Prenatal Females

Phase	Days	Treatment Groups (ppm)					
		0		338		1125	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
Gestation	0 - 3	16.4 ± 1.4 *	16	13.4 ± 0.7	20	13.4 ± 1.0	15
	3 - 6	12.2 ± 1.0 **	16	8.9 ± 0.9 *	20	7.1 ± 1.2 **	15
	6 - 9	11.1 ± 1.0 *	16	9.1 ± 0.9	20	6.8 ± 1.1 *	15
	9 - 12	13.5 ± 0.9 **	16	12.2 ± 0.6	20	6.9 ± 1.0 **	15
	12 - 15	20.8 ± 0.9 **	16	16.5 ± 1.0 *	20	10.8 ± 1.9 **	15
	15 - 18	45.9 ± 1.5 **	16	41.0 ± 1.9	20	19.4 ± 3.4 **	15
	18 - 21	49.4 ± 1.8 **	16	42.7 ± 1.5 *	20	26.0 ± 3.1 **	15
	0 - 21	169.2 ± 2.7 **	16	143.9 ± 4.4 **	20	90.4 ± 9.1 **	15

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F1 Females: Fertility Females

Phase	Days	Treatment Groups (ppm)					
		0		338		1125	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
Gestation	0 - 3	18.9 ± 1.5 **	16	14.4 ± 1.0 *	19	11.9 ± 1.6 **	9
	3 - 6	11.6 ± 1.0 **	16	9.2 ± 0.9 *	19	6.3 ± 0.6 **	9
	6 - 9	9.7 ± 0.7	16	9.5 ± 1.1	19	6.9 ± 1.4	9
	9 - 12	11.5 ± 0.9 *	16	9.4 ± 0.9	19	6.9 ± 1.6 *	9
	12 - 15	19.8 ± 1.0 **	16	17.0 ± 1.4	19	10.9 ± 2.0 **	9
	15 - 18	40.4 ± 2.2 *	16	35.0 ± 2.9	19	24.4 ± 5.1 **	9
	18 - 21	46.0 ± 2.7 **	16	38.3 ± 3.3	19	27.9 ± 2.8 **	9
	0 - 21	158.0 ± 6.1 **	16	132.8 ± 6.8 *	19	95.3 ± 10.7 **	9
Lactation	4 - 7	-1.0 ± 2.4	18	0.8 ± 2.2	19	7.3 ± 3.7	9
	7 - 10	10.0 ± 2.4	18	7.7 ± 2.4	19	9.4 ± 3.9	9
	10 - 13	3.8 ± 1.3	18	2.2 ± 1.7	19	4.6 ± 2.5	9
	13 - 16	1.7 ± 1.5	18	4.1 ± 1.9	19	4.9 ± 1.4	9
	16 - 19	-4.6 ± 2.0	18	-3.9 ± 1.5	19	-0.8 ± 2.3	9
	19 - 21	-5.0 ± 1.9	18	-5.9 ± 1.8	19	-1.1 ± 1.3	9
	21 - 25	-10.0 ± 2.1	18	-8.1 ± 1.2	19	-4.5 ± 1.3	9
	25 - 28	-3.4 ± 1.3	18	-4.6 ± 1.4	19	-3.7 ± 3.5	9
	4 - 28	-8.5 ± 2.8 **	18	-7.7 ± 2.3	19	16.1 ± 4.8 **	9

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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	28 - 35	47.1 ± 1.3 **	52 (17)	43.8 ± 0.8	70 (19)	38.0 ± 1.3 **	27 (7)
	35 - 42	50.6 ± 1.1 **	52 (17)	47.8 ± 1.1	70 (19)	39.9 ± 0.9 **	27 (7)
	42 - 49	47.2 ± 1.7 **	52 (17)	46.6 ± 0.8	70 (19)	40.9 ± 1.1 *	27 (7)
	49 - 56	42.9 ± 4.0	52 (17)	42.7 ± 0.7	70 (19)	44.1 ± 1.6	27 (7)
	56 - 63	36.5 ± 2.5	52 (17)	33.4 ± 0.7	70 (19)	36.3 ± 2.1	27 (7)
	63 - 70	24.2 ± 1.9 *	52 (17)	24.6 ± 1.0	70 (19)	29.6 ± 1.4 *	27 (7)
	70 - 77	22.8 ± 1.4	52 (17)	20.9 ± 1.0	70 (19)	23.4 ± 0.9	27 (7)
	77 - 84	16.8 ± 0.8	52 (17)	13.9 ± 2.7	70 (19)	17.3 ± 1.2	27 (7)
	84 - 91	12.4 ± 0.8	52 (17)	13.0 ± 2.1	70 (19)	12.0 ± 1.0	27 (7)
	28 - 91	300.4 ± 5.8	52 (17)	286.6 ± 4.5	70 (19)	281.6 ± 7.3	27 (7)

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F2 Females

Phase	Days	Treatment Groups (ppm)					
		0		338		1125	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
PND	28 - 35	36.4 ± 0.6 **	78 (18)	32.5 ± 0.7 **	77 (19)	30.9 ± 1.2 **	20 (7)
	35 - 42	28.5 ± 0.8 **	78 (18)	26.8 ± 0.9	77 (19)	24.2 ± 1.1 *	20 (7)
	42 - 49	19.7 ± 0.9 **	78 (18)	16.7 ± 1.0	77 (19)	15.5 ± 2.6 *	20 (7)
	49 - 56	18.1 ± 0.9 **	78 (18)	15.7 ± 0.9	77 (19)	12.8 ± 0.8 **	20 (7)
	56 - 63	15.9 ± 0.7 **	78 (18)	14.0 ± 1.0	76 (19)	11.1 ± 1.1 **	20 (7)
	63 - 70	12.9 ± 0.9	78 (18)	10.5 ± 0.9	76 (19)	10.5 ± 0.7	20 (7)
	70 - 77	10.0 ± 0.7 *	78 (18)	8.5 ± 1.0	77 (19)	7.1 ± 3.0	20 (7)
	77 - 84	11.9 ± 1.1	78 (18)	10.4 ± 1.0	77 (19)	9.4 ± 3.2	20 (7)
	84 - 91	5.8 ± 1.3	78 (18)	5.7 ± 1.4	77 (19)	8.7 ± 1.6	20 (7)
	28 - 91	159.2 ± 3.6 **	78 (18)	140.8 ± 3.9 **	77 (19)	130.0 ± 5.9 **	20 (7)

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LEGEND

Weight data for the F0 females, All F1 Males after PND 119, F1 Prenatal females, and F1 Fertility female cohorts displayed as mean \pm SEM. N is the number of animals.
Weight data for All F1 Males through PND 119, All F1 Females, and F2 male and female cohorts displayed as mean of litter means \pm SEM of litter means. N is displayed as number of animals (number of litters).

SD – Study Day; GD – Gestation Day; LD – Lactation Day; PND – Postnatal Day, adults post-weaning

In multigenerational studies, body weights reported for all animals until mating; pregnant animals only during gestation and lactation; all animals post-weaning.

Statistical analysis of weight data for F0 females, All F1 Males after PND 119, F1 Prenatal females, and F1 Fertility female cohorts performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests.

Statistical analysis of weight data with litter-mates for All F1 Males through PND 119, All F1 Females, and F2 male and female cohorts was performed by linear mixed models, with dam ID as random effect for both trend and pairwise analysis, and using Dunnett-Hsu adjustment for pairwise 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 $P \leq 0.01$

All F1 Females include all animals until mating or sacrifice except those removed on day of vaginal opening (pnd 26-39) for Mammary Gland Whole Mounts.

All F1 Males includes all animals until PND 119. From PND 126-147 only the F1 Fertility Cohort is included. PND 154 represents the unsacrificed F1 Fertility Cohort. The F1 Subchronic Cohort was sacrificed on PND 115-119. The F1 Prenatal Cohort was sacrificed on PND 119-121.

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

All lactation body weight data for one F1 Fertility Female from the 338 ppm group were excluded from analysis because the dam had no live pups after LD1.

**** END OF REPORT ****