

Study Number: MOG08002
Test Type: MOG - Range Finding
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: 05/05/2020

Time Report Requested: 06:58:48

Lab: RTI

Study Number:

MOG08002

Study Gender:

Female

PWG Approval Date

See web page for date of PWG Approval

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F1 Males

Treatment Groups (ppm)

Phase	0		937.5			1875			3750		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.06 ± 0.21 **	52 (7)	5.62 ± 0.37 **	79.60	18 (3)	6.32 ± 0.16 *	89.43	49 (8)	5.81 ± 0.20 **	82.22	39 (6)
PND4	9.87 ± 0.37 **	51 (7)	6.22 ± 1.37 **	63.02	17 (3)	8.33 ± 0.35	84.34	47 (8)	7.79 ± 0.49 *	78.95	38 (6)
PND7	14.29 ± 0.60 **	46 (7)	8.26 ± 2.09 **	57.76	15 (3)	12.00 ± 0.60	83.94	43 (8)	11.02 ± 0.66 *	77.07	29 (6)
PND14	28.11 ± 0.99 **	46 (7)	19.38 ± 2.79 **	68.92	11 (3)	24.20 ± 0.71 *	86.06	43 (8)	22.68 ± 0.84 **	80.67	22 (6)
PND21	39.67 ± 0.95 **	46 (7)	34.14 ± 2.16	86.06	11 (3)	36.39 ± 1.88	91.74	43 (8)	34.57 ± 1.34	87.13	22 (6)
PND24	54.73 ± 1.39 **	46 (7)	43.45 ± 3.20 *	79.39	11 (3)	48.06 ± 2.24 *	87.80	43 (8)	45.00 ± 1.32 **	82.22	22 (6)
PND25	58.91 ± 1.59 **	46 (7)	46.34 ± 3.70 *	78.65	11 (3)	51.92 ± 2.13 *	88.13	42 (8)	48.47 ± 1.37 **	82.27	22 (6)
PND28	73.19 ± 1.66 **	46 (7)	59.35 ± 4.02 *	81.09	11 (3)	63.74 ± 2.63 *	87.09	43 (8)	60.92 ± 1.81 **	83.24	22 (6)

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F1 Males

Phase	Treatment Groups (ppm)		
	7500		
	WT (g)	% of CNTL	N
PND1	4.82 ± 0.24 **	68.23	22 (5)
PND4	6.60 ± 0.36 **	66.83	21 (5)
PND7	9.22 ± 0.51 **	64.48	21 (5)
PND14	13.52 ± 1.87 **	48.07	18 (5)
PND21	22.36 ± 1.93 **	56.36	16 (4)
PND24	26.77 ± 1.73 **	48.92	16 (4)
PND25	27.16 ± 2.63 **	46.11	16 (4)
PND28	32.74 ± 3.04 **	44.73	16 (4)

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F1 Females

Treatment Groups (ppm)

Phase	0		937.5			1875			3750		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	6.56 ± 0.16 **	41 (7)	5.41 ± 0.30 *	82.48	15 (4)	6.14 ± 0.17	93.58	49 (8)	5.71 ± 0.27 *	87.04	31 (6)
PND4	9.30 ± 0.25 **	41 (7)	6.34 ± 0.88 *	68.16	13 (4)	8.13 ± 0.40	87.42	46 (8)	7.49 ± 0.61	80.51	31 (6)
PND7	13.30 ± 0.39 **	38 (7)	8.73 ± 1.75 *	65.66	12 (3)	11.71 ± 0.66	88.05	39 (8)	10.90 ± 0.76	81.98	28 (6)
PND14	26.27 ± 0.68 **	37 (7)	19.37 ± 3.84 *	73.75	10 (3)	23.89 ± 0.74	90.93	36 (8)	21.67 ± 1.43 *	82.50	25 (6)
PND21	37.00 ± 0.83 **	37 (7)	32.56 ± 4.86	88.00	10 (3)	36.60 ± 1.55	98.92	36 (8)	33.07 ± 1.47	89.38	25 (6)
PND24	50.97 ± 0.97 **	37 (7)	42.68 ± 5.09	83.74	10 (3)	47.74 ± 1.60	93.67	36 (8)	43.12 ± 1.70 **	84.61	25 (6)
PND25	54.79 ± 0.97 **	36 (7)	45.81 ± 5.03	83.60	10 (3)	51.49 ± 1.57	93.97	36 (8)	46.37 ± 1.67 **	84.63	25 (6)
PND28	66.93 ± 0.99 **	37 (7)	57.37 ± 5.26	85.72	10 (3)	61.59 ± 1.85	92.02	36 (8)	57.58 ± 1.94 **	86.04	25 (6)

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F1 Females

Phase	Treatment Groups (ppm)		
	7500		
	WT (g)	% of CNTL	N
PND1	4.38 ± 0.36 **	66.71	18 (4)
PND4	5.57 ± 1.03 **	59.90	16 (4)
PND7	7.10 ± 1.60 **	53.42	16 (4)
PND14	11.63 ± 1.96 **	44.29	10 (4)
PND21	17.82 ± 3.28 **	48.15	9 (4)
PND24	20.16 ± 3.72 **	39.55	9 (4)
PND25	21.21 ± 3.81 **	38.72	9 (4)
PND28	24.36 ± 4.58 **	36.40	9 (4)

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F1 Pups

Treatment Groups (ppm)

Phase	0		937.5			1875			3750		
	WT (g)	N	WT (g)	% from CNTL	N	WT (g)	% from CNTL	N	WT (g)	% from CNTL	N
PND1	6.84 ± 0.19 **	93 (7)	5.31 ± 0.40 **	77.67	33 (4)	6.23 ± 0.15	91.10	98 (8)	5.77 ± 0.21 *	84.34	70 (6)
PND4	9.64 ± 0.31 **	92 (7)	5.95 ± 1.02 **	61.77	30 (4)	8.23 ± 0.36	85.34	93 (8)	7.64 ± 0.54 *	79.28	69 (6)
PND7	13.89 ± 0.49 **	84 (7)	7.44 ± 1.71 **	53.54	27 (4)	11.84 ± 0.61	85.26	82 (8)	10.90 ± 0.71	78.50	57 (6)
PND14	27.33 ± 0.89 **	83 (7)	17.42 ± 3.38 **	63.73	21 (4)	24.04 ± 0.62	87.95	79 (8)	21.81 ± 1.28 *	79.80	47 (6)
PND21	38.55 ± 0.99 **	83 (7)	31.19 ± 4.16	80.91	21 (4)	36.46 ± 1.62	94.58	79 (8)	33.31 ± 1.35	86.40	47 (6)
PND24	53.17 ± 1.32 **	83 (7)	40.59 ± 4.59 *	76.35	21 (4)	47.89 ± 1.83	90.07	79 (8)	43.49 ± 1.51 *	81.79	47 (6)
PND25	57.29 ± 1.46 **	82 (7)	43.52 ± 4.54 **	75.97	21 (4)	51.73 ± 1.67	90.29	78 (8)	46.92 ± 1.50 **	81.90	47 (6)
PND28	70.60 ± 1.63 **	83 (7)	55.54 ± 5.22 *	78.67	21 (4)	62.72 ± 2.08	88.85	79 (8)	58.61 ± 1.92 *	83.02	47 (6)

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F1 Pups

Phase	Treatment Groups (ppm)		
	7500		
	WT (g)	% from CNTL	N
PND1	4.61 ± 0.38 **	67.44	40 (6)
PND4	6.04 ± 0.85 **	62.70	37 (6)
PND7	8.23 ± 1.42 **	59.26	37 (6)
PND14	12.69 ± 2.43 **	46.44	28 (6)
PND21	19.69 ± 3.92 **	51.09	25 (5)
PND24	22.97 ± 4.77 **	43.21	25 (5)
PND25	23.77 ± 4.93 **	41.49	25 (5)
PND28	28.48 ± 6.48 **	40.34	25 (5)

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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.

PND - Postnatal Day, pups pre-weaning

Pup weights are adjusted for covariate litter size using total live on PND 1.

Statistical analysis performed using mixed models, with Dam ID 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 one female F1 0 ppm pup on PND 25; and for one male F1 1875 ppm pup on PND 25, along with the weight gain intervals bounded by these excluded observations, for both the combined sex ("All") and separate sex analyses.

**** END OF REPORT ****