

**Study Number:** R88007B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**R04: Anogenital Distance Summary**  
**Test Compound:** Butyl Paraben  
**CAS Number:** 94-26-8

**Date Report Requested:** 12/07/2018  
**Time Report Requested:** 14:20:01  
**Lab:** RTI

**C Number:** R88007B  
**Study Gender:** Both  
**PWG Approval Date** See web page for date of PWG Approval

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**Male Pups**

Generation	Litter ID	Cohort	PND1	Treatment Groups (ppm)			
				0	5000	15000	40000
F1	A		No. Examined (litters)	125 (18)	109 (18)	139 (19)	96 (19)
			Anogenital Distance (mm)	2.04 ± 0.08	1.99 ± 0.07	1.97 ± 0.05	2.00 ± 0.06
			Bodyweight (g)	6.63 ± 0.14	7.00 ± 0.17	6.92 ± 0.12	6.81 ± 0.11
			Adjusted AGD (mm) <sup>a</sup>	2.05 ± 0.08	1.99 ± 0.07	1.97 ± 0.05	2.00 ± 0.06
F1	B		No. Examined (litters)	111 (18)	104 (16)	128 (21)	99 (19)
			Anogenital Distance (mm)	2.01 ± 0.10 *	2.11 ± 0.07	1.96 ± 0.04	1.88 ± 0.04
			Bodyweight (g)	7.00 ± 0.12	6.85 ± 0.14	7.02 ± 0.12	6.81 ± 0.11
			Adjusted AGD (mm) <sup>a</sup>	1.99 ± 0.08	2.11 ± 0.06	1.94 ± 0.04	1.89 ± 0.04
F1	C		No. Examined (litters)	110 (19)	85 (14)	116 (19)	83 (16)
			Anogenital Distance (mm)	1.95 ± 0.04	2.01 ± 0.05	1.92 ± 0.03	1.95 ± 0.03
			Bodyweight (g)	7.21 ± 0.15	7.12 ± 0.16	7.28 ± 0.17	7.12 ± 0.15
			Adjusted AGD (mm) <sup>a</sup>	1.94 ± 0.03	2.00 ± 0.05	1.90 ± 0.03	1.95 ± 0.02
F2	A		No. Examined (litters)	142 (25)	153 (23)	176 (28)	116 (23)
			Anogenital Distance (mm)	2.06 ± 0.07	2.14 ± 0.05	1.99 ± 0.05	1.99 ± 0.05
			Bodyweight (g)	7.40 ± 0.16	7.18 ± 0.12	7.08 ± 0.15	7.10 ± 0.12
			Adjusted AGD (mm) <sup>a</sup>	2.04 ± 0.06	2.14 ± 0.05	2.00 ± 0.05	1.99 ± 0.05
F2	B		No. Examined (litters)	165 (30)	149 (26)	172 (29)	129 (25)
			Anogenital Distance (mm)	2.13 ± 0.08	2.11 ± 0.08	2.43 ± 0.09 *	2.29 ± 0.09
			Bodyweight (g)	7.18 ± 0.12	7.43 ± 0.15	7.19 ± 0.13	7.16 ± 0.11
			Adjusted AGD (mm) <sup>a</sup>	2.13 ± 0.08	2.10 ± 0.08	2.43 ± 0.09 *	2.30 ± 0.09
F2	C		No. Examined (litters)	147 (28)	152 (30)	139 (30)	107 (24)
			Anogenital Distance (mm)	2.31 ± 0.07	2.29 ± 0.06	2.27 ± 0.07	2.19 ± 0.08

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**Male Pups**

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Generation	Litter ID	Cohort	PND1	Treatment Groups (ppm)			
				0	5000	15000	40000
			Bodyweight (g)	7.53 ± 0.14	7.52 ± 0.19	7.55 ± 0.19	7.37 ± 0.16
			Adjusted AGD (mm) <sup>a</sup>	2.29 ± 0.07	2.27 ± 0.05	2.24 ± 0.06	2.19 ± 0.07

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**Female Pups**

Generation	Litter ID	Cohort	PND1	Treatment Groups (ppm)			
				0	5000	15000	40000
F1	A		No. Examined (litters)	102 (17)	131 (18)	91 (19)	109 (19)
			Anogenital Distance (mm)	0.99 ± 0.04	0.96 ± 0.03	1.00 ± 0.04	1.01 ± 0.04
			Bodyweight (g)	6.54 ± 0.07	6.85 ± 0.14	6.64 ± 0.09	6.59 ± 0.12
			Adjusted AGD (mm) <sup>a</sup>	0.99 ± 0.04	0.95 ± 0.03	1.00 ± 0.04	1.01 ± 0.04
F1	B		No. Examined (litters)	124 (19)	109 (17)	129 (21)	105 (18)
			Anogenital Distance (mm)	0.96 ± 0.05	1.02 ± 0.05	0.93 ± 0.03	0.93 ± 0.02
			Bodyweight (g)	6.66 ± 0.14	6.71 ± 0.19	6.59 ± 0.12	6.54 ± 0.10
			Adjusted AGD (mm) <sup>a</sup>	0.96 ± 0.04	1.02 ± 0.04	0.93 ± 0.03	0.94 ± 0.02
F1	C		No. Examined (litters)	97 (20)	90 (14)	103 (20)	70 (16)
			Anogenital Distance (mm)	0.93 ± 0.01	0.96 ± 0.03	0.91 ± 0.02	0.96 ± 0.06
			Bodyweight (g)	7.02 ± 0.11	6.68 ± 0.19	7.04 ± 0.17	6.86 ± 0.26
			Adjusted AGD (mm) <sup>a</sup>	0.93 ± 0.01	0.96 ± 0.03	0.91 ± 0.02	0.96 ± 0.05
F2	A		No. Examined (litters)	145 (25)	145 (23)	169 (29)	133 (23)
			Anogenital Distance (mm)	1.06 ± 0.05	1.10 ± 0.04	1.08 ± 0.04	1.04 ± 0.04
			Bodyweight (g)	7.12 ± 0.14 *	6.77 ± 0.15	6.70 ± 0.12	6.63 ± 0.12 *
			Adjusted AGD (mm) <sup>a</sup>	1.03 ± 0.04	1.10 ± 0.04	1.08 ± 0.04	1.05 ± 0.04
F2	B		No. Examined (litters)	197 (32)	164 (26)	153 (29)	143 (25)
			Anogenital Distance (mm)	1.03 ± 0.03	1.00 ± 0.03	1.13 ± 0.04	1.08 ± 0.04
			Bodyweight (g)	6.81 ± 0.13	6.99 ± 0.11	6.71 ± 0.14	6.71 ± 0.13
			Adjusted AGD (mm) <sup>a</sup>	1.03 ± 0.03	1.00 ± 0.03	1.13 ± 0.04	1.08 ± 0.04
F2	C		No. Examined (litters)	133 (26)	159 (29)	126 (30)	92 (22)
			Anogenital Distance (mm)	1.15 ± 0.03	1.14 ± 0.03	1.11 ± 0.03	1.11 ± 0.03

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**Female Pups**

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Generation	Litter ID	Cohort	PND1	Treatment Groups (ppm)			
				0	5000	15000	40000
			Bodyweight (g)	7.25 ± 0.14	6.98 ± 0.14	7.22 ± 0.22	6.77 ± 0.18
			Adjusted AGD (mm) <sup>a</sup>	1.14 ± 0.03	1.15 ± 0.03	1.10 ± 0.03	1.13 ± 0.03

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## LEGEND

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Data are displayed as mean  $\pm$  SEM

<sup>a</sup>AGD is adjusted for body weight on PND 1.

Statistical analysis was performed using mixed models, with dam ID as random effect for trend and pairwise tests, with the Dunnett-Hsu adjustment for multiple comparisons.

Animals dead, found dead cannibalized or missing presumed dead were excluded from analysis.

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  $P \leq 0.01$

In multiple breeding/littering studies Litter A is the default designation for the first litter; subsequent litters would be B, C etc.

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