

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

R02: Reproductive Performance Summary

Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 01/15/2019
Time Report Requested: 15:47:17
Lab: RTI

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

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F0 Female

Treatment Groups (ppm)

Litter ID		0	5000	15000	40000
A	No. Females Paired	22	22	22	22
	No. Females Mated	21	21	20	22
	No. Females Littering	19	18	19	19
	Percent of Mated Females/Paired ^a	95.5	95.5	90.9	100.0
	Percent of Littered Females/Paired ^a	86.4	81.8	86.4	86.4
	Percent of Littered Females/Mated ^a	90.5	85.7	95.0	86.4
	Pre-coital Interval ^b	4.5 ± 0.7 (20)	4.8 ± 1.0 (20)	5.8 ± 0.9 (20)	4.5 ± 0.7 (22)
	Gestational Length ^b	22.3 ± 0.1 (18)	22.3 ± 0.1 (17)	22.2 ± 0.1 (19)	22.1 ± 0.1 (19)

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F0 Female

Treatment Groups (ppm)

Litter ID		0	5000	15000	40000
B	No. Females Paired	22	20	22	22
	No. Females Mated	22	19	22	21
	No. Females Littering	20	17	21	19
	Percent of Mated Females/Paired ^a	100.0	95.0	100.0	95.5
	Percent of Littered Females/Paired ^a	90.9	89.5	95.5	86.4
	Percent of Littered Females/Mated ^a	90.9	94.4	95.5	90.5
	Pre-coital Interval ^b	3.2 ± 0.5 (20)	3.5 ± 0.6 (19)	3.1 ± 0.5 (21)	3.6 ± 0.6 (21)
	Gestational Length ^b	22.3 ± 0.1 (18)	22.5 ± 0.1 (17)	22.2 ± 0.1 (20)	22.1 ± 0.1 (19)

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Treatment Groups (ppm)

Litter ID		0	5000	15000	40000
C	No. Females Paired	22	19	22	22
	No. Females Mated	21	19	22	22
	No. Females Littering	20	14	20	17
	Percent of Mated Females/Paired ^a	95.5	100.0	100.0	100.0
	Percent of Littered Females/Paired ^a	90.9	73.7	90.9	77.3
	Percent of Littered Females/Mated ^a	95.2	73.7	90.9	77.3
	Pre-coital Interval ^b	2.9 ± 0.3 (17)	3.6 ± 0.7 (17)	3.0 ± 0.3 (21)	2.9 ± 0.4 (22)
	Gestational Length ^b	22.4 ± 0.1 (16)	22.3 ± 0.1 (12)	22.2 ± 0.1 (19)	22.2 ± 0.2 (17)

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F0 Female

Treatment Groups (ppm)

Litter ID		40000	40000 NF
D	No. Females Paired	22	22
	No. Females Mated	21	20
	No. Females Littering	15	17
	Percent of Mated Females/Paired ^a	95.5	90.9
	Percent of Littered Females/Paired ^a	68.2	77.3
	Percent of Littered Females/Mated ^a	71.4	85.0
	Pre-coital Interval ^b	2.7 ± 0.4 (21)	2.3 ± 0.4 (19)
	Gestational Length ^b	22.3 ± 0.1 (15)	22.3 ± 0.1 (16)

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F1 Female: F1c Parental Females

Litter ID	Treatment Groups (ppm)				
	0	5000	15000	40000	
A	No. Females Paired	40	40	39	26
	No. Females Mated	27	27	32	23
	No. Females Littering	25	24	30	23
	Percent of Mated Females/Paired ^a	67.5 *	67.5	82.1	88.5
	Percent of Littered Females/Paired ^a	62.5 *	63.2	81.1	88.5
	Percent of Littered Females/Mated ^a	92.6	92.3	96.8	100.0
	Pre-coital Interval ^b	4.6 ± 0.8 (17)	5.1 ± 0.6 (13)	6.1 ± 0.8 (17)	4.5 ± 0.5 (8)
	Gestational Length ^b	22.6 ± 0.1 (16)	22.6 ± 0.2 (13)	22.4 ± 0.1 (17)	22.1 ± 0.1 (8) *

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F1 Female: F1c Parental Females

Litter ID	Treatment Groups (ppm)				
	0	5000	15000	40000	
B	No. Females Paired	40	38	37	26
	No. Females Mated	34	32	32	25
	No. Females Littering	33	28	30	25
	Percent of Mated Females/Paired ^a	85.0	84.2	86.5	96.2
	Percent of Littered Females/Paired ^a	82.5	77.8	81.1	96.2
	Percent of Littered Females/Mated ^a	97.1	90.3	93.8	100.0
	Pre-coital Interval ^b	4.3 ± 0.6 (17)	3.6 ± 0.5 (14)	3.4 ± 0.5 (17)	3.1 ± 0.2 (8)
	Gestational Length ^b	22.5 ± 0.1 (17) *	22.7 ± 0.1 (14)	22.3 ± 0.1 (16)	22.1 ± 0.1 (8)

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F1 Female: F1c Parental Females

Litter ID	Treatment Groups (ppm)				
	0	5000	15000	40000	
C	No. Females Paired	38	35	37	26
	No. Females Mated	34	34	35	25
	No. Females Littering	28	30	30	24
	Percent of Mated Females/Paired ^a	89.5	97.1	94.6	96.2
	Percent of Littered Females/Paired ^a	75.7	85.7	85.7	92.3
	Percent of Littered Females/Mated ^a	82.4	88.2	90.9	96.0
	Pre-coital Interval ^b	3.0 ± 0.3 (17)	3.5 ± 0.5 (13)	3.0 ± 0.4 (18)	3.2 ± 0.2 (8)
	Gestational Length ^b	22.7 ± 0.1 (16)	22.6 ± 0.1 (13)	22.6 ± 0.1 (17)	22.4 ± 0.1 (8)

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LEGEND

Pregnancy status for non-littering dams could not be confirmed for these litters, so endpoints involving number of females pregnant were not calculated.

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

When reported, pre-coital interval in days is calculated for sperm positive females; results shown as mean \pm SEM (N)

Gestation length in days calculated for sperm positive females that delivered a litter; results shown as mean \pm SEM (N)

Animals removed from study between mating and littering excluded from calculations of percent littered females

^aStatistical analysis for the F0 animals was performed by Cochran-Armitage (trend) and Fisher Exact (pairwise) 2-sided test. For F1 animals statistical analysis was performed by Cochran-Armitage test with Rao-Scott modification for the random effect due to litter.

^bStatistical analysis for F0 animals performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests. For F1 animals statistical analysis was performed using a bootstrapped Jonckheere test for trend, and a Datta-Satten modified Wilcoxon test with Hommel adjustment for pairwise comparisons.

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

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

D Litter is crossover mating of F0 40000 ppm Females with F0 control Males and F0 naive Females with F0 40000 ppm Males (dose listed as 40000 NF are the F0 naive Females)

No analysis was performed on the D litter and F0 naive group because there were no D litter control groups.

NF = Naive Females

**** END OF REPORT ****