

Study Number: R10997
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

R02: Reproductive Performance Summary

Test Compound: Diisobutyl Phthalate
CAS Number: 84-69-5

Date Report Requested: 04/02/2020
Time Report Requested: 07:12:48
Lab: RTI

C Number: R10997
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	1000	5000	10000
A	No. Females Paired	23	23	23	23
	No. Females Mated	23	23	23	22
	No. Females Littering	21	23	21	22
	Percent of Mated Females/Paired	100.0	100.0	100.0	95.7
	Percent of Littered Females/Paired	91.3	100.0	91.3	95.7
	Percent of Littered Females/Mated	91.3	100.0	91.3	100.0
	Pre-coital Interval	3.6 ± 0.6 (23)	3.1 ± 0.6 (21)	3.4 ± 0.5 (21)	3.5 ± 0.4 (22)
	Gestational Length	22.4 ± 0.1 (21)	22.4 ± 0.1 (21)	22.2 ± 0.1 (19)	22.2 ± 0.1 (22)

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F0 Female

Treatment Groups (ppm)

Litter ID		0	1000	5000	10000
B	No. Females Paired	23	23	23	23
	No. Females Mated	22	23	23	23
	No. Females Littering	21	23	21	22
	Percent of Mated Females/Paired	95.7	100.0	100.0	100.0
	Percent of Littered Females/Paired	91.3	100.0	100.0	95.7
	Percent of Littered Females/Mated	95.5	100.0	100.0	95.7
	Pre-coital Interval	3.2 ± 0.6 (19)	4.1 ± 0.8 (21)	2.6 ± 0.3 (20)	2.7 ± 0.3 (23)
	Gestational Length	22.3 ± 0.1 (18) **	22.2 ± 0.1 (21)	22.2 ± 0.1 (19)	21.8 ± 0.1 (22) **

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Treatment Groups (ppm)

Litter ID		0	1000	5000	10000
C	No. Females Paired	23	23	21	22
	No. Females Mated	22	23	21	21
	No. Females Littering	21	22	20	21
	Percent of Mated Females/Paired	95.7	100.0	100.0	95.5
	Percent of Littered Females/Paired	91.3	95.7	100.0	95.5
	Percent of Littered Females/Mated	95.5	95.7	100.0	100.0
	Pre-coital Interval	3.2 ± 0.6 (22)	3.5 ± 0.5 (21)	3.4 ± 0.6 (20)	2.9 ± 0.4 (20)
	Gestational Length	22.2 ± 0.1 (21)	22.2 ± 0.1 (20)	22.3 ± 0.1 (19)	22.2 ± 0.1 (20)

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F1 Female: F1c Parental Females

Treatment Groups (ppm)

Litter ID		0	1000	5000	10000
A	No. Females Paired	40	40	40	40
	No. Females Mated	35	35	33	35
	No. Females Littering	32	31	32	29
	Percent of Mated Females/Paired	87.5	87.5	82.5	87.5
	Percent of Littered Females/Paired	80.0	77.5	84.2	72.5
	Percent of Littered Females/Mated	91.4	88.6	100.0	82.9
	Pre-coital Interval	5.5 ± 0.6 (18)	4.6 ± 0.6 (18)	5.3 ± 0.7 (18)	4.0 ± 0.7 (17)
	Gestational Length	22.4 ± 0.1 (18)	22.3 ± 0.1 (15)	22.4 ± 0.1 (18)	22.2 ± 0.1 (16)

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F1 Female: F1c Parental Females

Treatment Groups (ppm)

Litter ID		0	1000	5000	10000
B	No. Females Paired	40	40	38	40
	No. Females Mated	37	38	34	38
	No. Females Littering	35	31	31	33
	Percent of Mated Females/Paired	92.5	95.0	89.5	95.0
	Percent of Littered Females/Paired	89.7	77.5	86.1	82.5
	Percent of Littered Females/Mated	97.2	81.6	96.9	86.8
	Pre-coital Interval	3.5 ± 0.5 (20)	3.1 ± 0.4 (19)	3.5 ± 0.4 (20)	3.1 ± 0.4 (18)
	Gestational Length	22.2 ± 0.1 (20)	22.2 ± 0.1 (17)	22.1 ± 0.1 (19)	22.0 ± 0.1 (18)

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F1 Female: F1c Parental Females

Treatment Groups (ppm)

Litter ID		0	1000	5000	10000
C	No. Females Paired	38	40	35	40
	No. Females Mated	37	39	32	38
	No. Females Littering	33	37	30	34
	Percent of Mated Females/Paired	97.4	97.5	91.4	95.0
	Percent of Littered Females/Paired	86.8	92.5	85.7	85.0
	Percent of Littered Females/Mated	89.2	94.9	93.8	89.5
	Pre-coital Interval	3.4 ± 0.5 (18)	2.7 ± 0.2 (18)	3.4 ± 0.5 (18)	3.4 ± 0.3 (18)
	Gestational Length	22.3 ± 0.1 (17)	22.3 ± 0.1 (17)	22.3 ± 0.1 (17)	22.0 ± 0.1 (18)

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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 of the same pair would be B, C etc.

When reported, pre-coital interval in days is calculated for sperm positive females.

Gestation length in days calculated for sperm positive females that delivered a litter.

Animals that died or were removed from study between mating and littering were excluded from the littered/paired, littered/mated, and littered/pregnant endpoints.

Statistical 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. These statistical test were used for the Percent of Mated Females/Paried; Percent of Littered Females/Paired; Percent of Littered Females/Mated.

Statistical 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. These tests were used for the Pre-coital Interval and Gestational Length endpoints if present.

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 $P \leq 0.01$

**** END OF REPORT ****