C Number: C10987

Study Gender: Both

PWG Approval Date See web page for date of PWG Approval

Study Number: C10987

Test Type: TOX

Route: Dosing in Feed

Species/Strain: Rat/Harlan Sprague Dawley

PA48: Summary of Tissue Concentration

Test Compound: Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 10/29/2019

Time Report Requested: 07:45:13

Lab: NTP

		F0 Female			
Phase	**Dose (ppm)**	**0**	**300**	**1000**	**3000**
GD 18	Mono-n-butyl Phthalate Concentration in Dam Plasma (ng/ml)	9.2 ± 4.0 (5) **	1148.0 ± 48.3 (5) **	4372.0 ± 567.1 (5) **	19633.3 ± 3077.5 (3) **
GD 18	Mono-n-butyl Phthalate Concentration in Amniotic Fluid (ng/ml)	BD	84.5 ± 13.7 (5)	403.8 ± 34.5 (5)	1693.3 ± 153.4 (3)
GD 18	Mono-n-butyl Phthalate Concentration in Fetuses (ng/g)	BD	323.6 ± 17.8 (5)	1270.6 ± 127.7 (5)	3930.0 ± 705.0 (3)

	F0 Female	
Phase	**Dose (ppm)**	**10000**
GD 18	Mono-n-butyl Phthalate Concentration in Dam Plasma (ng/ml)	156800.0 ± 3878.1 (5) **
GD 18	Mono-n-butyl Phthalate Concentration in Amniotic Fluid (ng/ml)	22760.0 ± 2183.3 (5)
GD 18	Mono-n-butyl Phthalate Concentration in Fetuses (ng/g)	26840.0 ± 2763.6 (5)

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		F0 Female			
Phase	**Dose (ppm)**	**0**	**300**	**1000**	**3000**
LD 4	Mono-n-butyl Phthalate Concentration in Dam Plasma (ng/ml)	BD	1625.0 ± 75.0 (2)	6234.0 ± 897.2 (5)	25580.0 ± 2272.1 (5)
LD 4	Mono-n-butyl Phthalate Concentration in Pups (ng/g)	8.6 ± 1.3 (5) **	146.6 ± 103.7 (2)	350.8 ± 70.8 (5) **	2743.2 ± 725.5 (5) **

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F0 Female		
Phase	**Dose (ppm)**	**10000**
LD 4	Mono-n-butyl Phthalate Concentration in Dam Plasma (ng/ml)	161200.0 ± 17690.1 (5)
LD 4	Mono-n-butyl Phthalate Concentration in Pups (ng/g)	4721.5 ± 1044.6 (5) **

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LEGEND

Data are displayed as mean ± SEM (N) except for pup concentration which is displayed as mean of litter means ± SEM of litter means (number of litters).

GD - Gestation Day; LD - Lactation Day

Values below the limit of detection (LOD) were substituted with 1/2 the LOD value.

If 80% or more of the values in a dose group were below the LOD, no statistical analysis was performed.

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests for all endpoints except pup concentrations. Pup concentration analysis was performed using a bootstrapped Jonckheere trend test and pairwise comparisons were done using the Datta-Satten modified Wilcoxon test with Hommel adjustment 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 <= 0.05

** Statistically significant at P <= 0.01

BD - Group did not have over 20% of its values above the limit of detection.

** END OF REPORT **