

Experiment Number: C20614B-02
Test Type: TOX
Route: Dosing in Feed
Species/Strain: Rat/Sprague Dawley

PA48: Summary of Tissue Concentration
Test Compound: Perfluorooctanoic Acid
CAS Number: 335-67-1

Date Report Requested: 04/23/2018
Time Report Requested: 09:58:42
Lab: NTP

C Number:	C20614B-02
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both

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		F0 Female	
Phase	Dose (ppm)	0	300
GD 18	Plasma Concentration (ng/ml)	BD	31080 ± 1227 (5)
GD 18	Plasma Concentration (uM)	BD	75.1 ± 3.0 (5)
GD 18	Pooled Whole Fetal Concentration (ng/g)	BD	9374 ± 1785 (5)
GD 18	Pooled Whole Fetal Concentration (uM)	BD	23 ± 4 (5)
LD 4	Plasma Concentration (ng/ml)	BD	30725 ± 2782 (4)
LD 4	Plasma Concentration (uM)	BD	74.2 ± 6.7 (4)
PND 4	Whole Male Pup Concentration (ng/g)	BD	4539 ± 320 (4)
PND 4	Whole Male Pup Concentration (uM)	BD	11 ± 1 (4)
PND 4	Whole Female Pup Concentration (ng/g)	BD	4132 ± 517 (3)
PND 4	Whole Female Pup Concentration (uM)	BD	10 ± 1 (3)

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		F1 Male: Non-Perinatal									
Phase	Dose (ppm)	0/0	0/20			0/40			0/80		
SD 108	Plasma Concentration (ng/ml)	BD	81400	± 2715	(10)	130780	± 7560	(10)	159600	± 8303	(10)
SD 108	Plasma Concentration (uM)	BD	196.6	± 6.6	(10)	315.8	± 18.3	(10)	385.5	± 20.1	(10)
SD 108	Liver Concentration (ng/g)	BD	83550	± 4658	(10)	108280	± 5412	(10)	147400	± 10629	(10)
SD 108	Liver Concentration (uM)	BD	201.8	± 11.2	(10)	261.5	± 13.1	(10)	356.0	± 25.7	(10)
SD 108	Liver/Plasma Ratio	BD	1.02	± 0.03	(10)	0.84	± 0.04	(10)	0.92	± 0.03	(10)

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		F1 Male: Perinatal							
Phase	Dose (ppm)	300/0		300/20		300/40		300/80	
SD 108	Plasma Concentration (ng/ml)	36	± 12 (10) **	78030	± 2976 (10) **	117060	± 4189 (10) **	144100	± 5480 (10) **
SD 108	Plasma Concentration (uM)	0.1	± 0.0 (10) **	188.5	± 7.2 (10) **	282.7	± 10.1 (10) **	348.0	± 13.2 (10) **
SD 108	Liver Concentration (ng/g)	BD		85960	± 3635 (10)	109210	± 3039 (10)	133310	± 4625 (10)
SD 108	Liver Concentration (uM)	BD		207.6	± 8.8 (10)	263.8	± 7.3 (10)	322.0	± 11.2 (10)
SD 108	Liver/Plasma Ratio	BD		1.11	± 0.04 (10)	0.94	± 0.03 (10)	0.94	± 0.05 (10)

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LEGEND

Data are displayed as mean \pm SEM (N) unless otherwise noted

SD – Study Day; GD – Gestation Day; LD – Lactation Day; PND – Postnatal Day

If over 20% of the animals in a group are above the limit of detection, then 1/2 the limit of detection value is substituted for values that are below the limit of detection.

When the control group did not have over 20% of its values above the limit of detection, no mean or standard error were calculated; no statistical analysis was done for the endpoint.

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests (unless otherwise noted).

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 $P \leq 0.01$

Values adjusted for molar concentration were calculated by dividing by the molecular weight of 414.06.

Decrease in N for Liver concentration in the 300/0 group is due to one male's value being excluded because it was an outlier.

Statistically significant at $P \leq 0.05$ for male multiple comparisons of 0/20 to 300/20; 0/40 to 300/40; 0/80 to 300/80 using a Wilcoxon rank-sum test with a Hommel p-value adjustment.

Statistically significant at $P \leq 0.01$ for male multiple comparisons of 0/20 to 300/20; 0/40 to 300/40; 0/80 to 300/80 using a Wilcoxon rank-sum test with a Hommel p-value adjustment.

BD Group did not have over 20% of its values above the limit of quantification

**** END OF REPORT ****