C Number:	C20617
Study Gender:	Both
PWG Approval Date	See web page for date of PWG Approval

Study Number: C20617
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

PA48: Summary of Tissue Concentration
Test Compound: Perfluorooctane Sulfonate
CAS Number: 1763-23-1

Date Report Requested: 01/17/2019
Time Report Requested: 14:33:56
Lab: Battelle

		Male		
Dose (mg/kg/day)	**0**	**0.312**	**0.625**	**1.25**
(mmol/kg/day)	0	0.00062	0.0013	0.0025
Plasma Concentration (ng/ml)	BD	23730 ± 1114 (10)	51560 ± 3221 (10)	94260 ± 3144 (10)
Plasma Concentration (uM)	BD	47.4 ± 2.2 (10)	103.1 ± 6.4 (10)	188.5 ± 6.3 (10)
Normalized Plasma Concentration (uM/mmol/kg)		76057.7 ± 3569.4 (10)	82496.0 ± 5154.4 (10)	75408.0 ± 2515.1 (10)
Liver Concentration (ng/g)	BD	87170 ± 3039 (10)	160100 ± 7209 (10)	286100 ± 7882 (10)
Liver Concentration (uM)	BD	174.3 ± 6.1 (10)	320.1 ± 14.4 (10)	572.1 ± 15.8 (10)
Normalized Liver Concentration (uM/mmol/kg)		279391.0 ± 9739.2 (10)	256160.0 ± 11533.9 (10)	228880.0 ± 6305.4 (10)
Liver/Plasma Ratio	BD	3.76 ± 0.24 (10)	3.29 ± 0.35 (10)	3.06 ± 0.11 (10)

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	Male							
Dose (mg/kg/day)	**2.5**				**5**			
(mmol/kg/day)	0.005				0.01			
Plasma Concentration (ng/ml)	173700	±	9036	(10)	318200	±	8868	(10)
Plasma Concentration (uM)	347.3	±	18.1	(10)	636.2	±	17.7	(10)
Normalized Plasma Concentration (uM/mmol/kg)	69480.0	±	3614.3	(10)	63640.0	±	1773.6	(10)
Liver Concentration (ng/g)	468200	±	12136	(10)	867100	±	26802	(10)
Liver Concentration (uM)	936.2	±	24.3	(10)	1733.7	±	53.6	(10)
Normalized Liver Concentration (uM/mmol/kg)	187280.0	±	4854.4	(10)	173420.0	±	5360.4	(10)
Liver/Plasma Ratio	2.75	±	0.13	(10)	2.74	±	0.08	(10)

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	Female			
Dose (mg/kg/day)	**0**	**0.312**	**0.625**	**1.25**
(mmol/kg/day)	0	0.00062	0.0013	0.0025
Plasma Concentration (ng/ml)	54 ± 4 (10) **	30530 ± 918 (10) **	66970 ± 1629 (10) **	135100 ± 3877 (10) **
Plasma Concentration (uM)	0.1 ± 0.0 (10) **	61.0 ± 1.8 (10) **	133.9 ± 3.3 (10) **	270.1 ± 7.8 (10) **
Normalized Plasma Concentration (uM/mmol/kg)		97852.6 ± 2941.1 (10)	107152.0 ± 2607.1 (10)	108080.0 ± 3101.7 (10)

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	Female	
Dose (mg/kg/day)	**2.5**	**5**
(mmol/kg/day)	0.005	0.01
Plasma Concentration (ng/ml)	237500 ± 5218 (10) **	413556 ± 8071 (9) **
Plasma Concentration (uM)	474.9 ± 10.4 (10) **	826.9 ± 16.1 (9) **
Normalized Plasma Concentration (uM/mmol/kg)	95000.0 ± 2087.2 (10)	82711.1 ± 1614.2 (9)

LEGEND

Data are displayed as mean ± SEM (N) unless otherwise noted.

SD – Study 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 <= 0.05

** Statistically significant at P <= 0.01

Values adjusted for molar concentration were calculated by dividing the absolute measurement by the molecular weight of 500.1 g/mol

Normalized values were calculated by dividing the absolute measurment by the dose.

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

** END OF REPORT **