C Number:	C07040
Study Gender:	Both
PWG Approval Date	See web page for date of PWG Approval

Study Number: C07040
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

PA48: Summary of Tissue Concentration
Test Compound: Perfluorobutane sulfonate
CAS Number: 375-73-5

Date Report Requested: 01/17/2019
Time Report Requested: 14:33:53
Lab: Battelle

	Male			
Dose (mg/kg/day)	**0**	**62.6**	**125**	**250**
(mmol/kg/day)	0	0.209	0.417	0.833
Plasma Concentration (ng/ml)	90 ± 16 (9) **	2222 ± 477 (10) **	5366 ± 1042 (10) **	12430 ± 908 (10) **
Plasma Concentration (uM)	0.3 ± 0.1 (9) **	7.4 ± 1.6 (10) **	17.9 ± 3.5 (10) **	41.4 ± 3.0 (10) **
Normalized Plasma Concentration (uM/mmol/kg)		35.5 ± 7.6 (10)	42.9 ± 8.3 (10)	49.7 ± 3.6 (10)
Liver Concentration (ng/g)	BD	1245 ± 217 (10)	2437 ± 528 (10)	4461 ± 400 (10)
Liver Concentration (uM)	BD	4.1 ± 0.7 (10)	8.1 ± 1.8 (10)	14.9 ± 1.3 (10)
Normalized Liver Concentration (uM/mmol/kg)		19.9 ± 3.5 (10)	19.5 ± 4.2 (10)	17.8 ± 1.6 (10)
Liver/Plasma Ratio	BD	0.59 ± 0.05 (10)	0.44 ± 0.02 (10)	0.36 ± 0.01 (10)

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Male

Dose (mg/kg/day)	**500**			
(mmol/kg/day)	1.666			
Plasma Concentration (ng/ml)	43160	± 6912	(10)	**
Plasma Concentration (uM)	143.8	± 23.0	(10)	**
Normalized Plasma Concentration (uM/mmol/kg)	86.3	± 13.8	(10)	
Liver Concentration (ng/g)	15381	± 2590	(10)	
Liver Concentration (uM)	51.3	± 8.6	(10)	
Normalized Liver Concentration (uM/mmol/kg)	30.8	± 5.2	(10)	
Liver/Plasma Ratio	0.35	± 0.01	(10)	

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	Female			
Dose (mg/kg/day)	**0**	**62.6**	**125**	**250**
(mmol/kg/day)	0	0.209	0.417	0.833
Plasma Concentration (ng/ml)	BD	154 ± 48 (10)	309 ± 90 (10)	931 ± 207 (8)
Plasma Concentration (uM)	BD	0.5 ± 0.2 (10)	1.0 ± 0.3 (10)	3.1 ± 0.7 (8)
Normalized Plasma Concentration (uM/mmol/kg)		2.5 ± 0.8 (10)	2.5 ± 0.7 (10)	3.7 ± 0.8 (8)

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	Female	
Dose (mg/kg/day)	**500**	**1000**
(mmol/kg/day)	1.666	3.332
Plasma Concentration (ng/ml)	8171 ± 3385 (9)	25455 ± 23145 (2)
Plasma Concentration (uM)	27.2 ± 11.3 (9)	84.8 ± 77.1 (2)
Normalized Plasma Concentration (uM/mmol/kg)	16.3 ± 6.8 (9)	25.5 ± 23.1 (2)

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 300.1 g/mol

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

Decrease in N in the 250 mg/kg dose group is due to one female's value being excluded because it was an outlier.

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

** END OF REPORT **