

**Study Number:** C20615

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**C Number:**

**Study Gender:**

**PWG Approval Date**

**PA48: Summary of Tissue Concentration**

**Test Compound:** Perfluorodecanoic Acid

**CAS Number:** 335-76-2

C20615

Both

See web page for date of PWG Approval

**Date Report Requested:** 01/17/2019

**Time Report Requested:** 14:34:11

**Lab:** Battelle

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Dose (mg/kg/day)	Male			
	0	0.156	0.312	0.625
(mmol/kg/day)	0	0.0003	0.00061	0.0012
Plasma Concentration (ng/ml)	22 ± 4 (10) **	8505 ± 578 (10) **	23030 ± 1771 (10) **	42720 ± 2960 (10) **
Plasma Concentration (uM)	0.0 ± 0.0 (10) **	16.5 ± 1.1 (10) **	44.8 ± 3.4 (10) **	83.1 ± 5.8 (10) **
Normalized Plasma Concentration (uM/mmol/kg)		54519.2 ± 3703.9 (10)	73814.1 ± 5674.7 (10)	68352.0 ± 4735.9 (10)
Liver Concentration (ng/g)	BD	44680 ± 1485 (10)	87150 ± 1675 (10)	163900 ± 2799 (10)
Liver Concentration (uM)	BD	86.9 ± 2.9 (10)	169.5 ± 3.3 (10)	318.8 ± 5.4 (10)
Normalized Liver Concentration (uM/mmol/kg)		286410.3 ± 9521.8 (10)	279326.9 ± 5367.3 (10)	262240.0 ± 4477.8 (10)
Liver/Plasma Ratio	BD	5.49 ± 0.43 (10)	4.04 ± 0.40 (10)	4.00 ± 0.27 (10)

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<b>Dose (mg/kg/day)</b> (mmol/kg/day)	<b>Male</b>			
	<b>1.25</b>		<b>2.5</b>	
	0.0024		0.0049	
Plasma Concentration (ng/ml)	101580 ± 4009 (10) **	259400 ± 20196 (10) **		
Plasma Concentration (uM)	197.6 ± 7.8 (10) **	504.6 ± 39.3 (10) **		
Normalized Plasma Concentration (uM/mmol/kg)	81264.0 ± 3207.4 (10)	103760.0 ± 8078.5 (10)		
Liver Concentration (ng/g)	308800 ± 8177 (10)	403600 ± 13838 (10)		
Liver Concentration (uM)	600.7 ± 15.9 (10)	785.1 ± 26.9 (10)		
Normalized Liver Concentration (uM/mmol/kg)	247040.0 ± 6541.5 (10)	161440.0 ± 5535.2 (10)		
Liver/Plasma Ratio	3.09 ± 0.15 (10)	1.63 ± 0.12 (10)		

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	Female			
Dose (mg/kg/day)	0	0.156	0.312	0.625
(mmol/kg/day)	0	0.0003	0.00061	0.0012
Plasma Concentration (ng/ml)	42 ± 17 (10) **	11208 ± 436 (9) **	25700 ± 1048 (10) **	50290 ± 3309 (10) **
Plasma Concentration (uM)	0.1 ± 0.0 (10) **	21.8 ± 0.8 (9) **	50.0 ± 2.0 (10) **	97.8 ± 6.4 (10) **
Normalized Plasma Concentration (uM/mmol/kg)		71844.7 ± 2796.2 (9)	82371.8 ± 3359.5 (10)	80464.0 ± 5294.5 (10)

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	Female	
<b>Dose (mg/kg/day)</b>	<b>1.25</b>	<b>2.5</b>
(mmol/kg/day)	0.0024	0.0049
Plasma Concentration (ng/ml)	117150 ± 6498 (10) **	246875 ± 13291 (8) **
Plasma Concentration (uM)	227.9 ± 12.6 (10) **	480.2 ± 25.9 (8) **
Normalized Plasma Concentration (uM/mmol/kg)	93720.0 ± 5198.5 (10)	98750.0 ± 5316.5 (8)

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LEGEND

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Data are displayed as mean  $\pm$  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  $P \leq 0.05$

\*\* Statistically significant at  $P \leq 0.01$

Values adjusted for molar concentration were calculated by dividing the absolute measurement by the molecular weight of 514.08 g/mol

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

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

**\*\* END OF REPORT \*\***