

Experiment Number: C20615
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

PA06: Organ Weights Summary
Test Compound: Perfluorodecanoic Acid
CAS Number: 335-76-2

Date Report Requested: 07/06/2017
Time Report Requested: 07:09:54
Lab: Battelle

C Number:	C20615
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both

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	Males																	
	Treatment Groups (mg/kg/day)																	
	0			0.156			0.312			0.625			1.25			2.5		
Terminal Body Wt.	333.3	± 6.4	(10) **	344.1	± 7.3	(10)	330.5	± 5.6	(10)	321.6	± 5.4	(10)	263.1	± 4.4	(10) **	207.3	± 8.2	(10) **
R. Adrenal gland																		
Absolute (g)	0.0214 ± 0.0007 (10) **			0.0182 ± 0.0007 (10) *			0.0200 ± 0.0007 (10) *			0.0185 ± 0.0009 (10) **			0.0169 ± 0.0006 (10) **			0.0176 ± 0.0009 (10) **		
Relative (mg/g)	0.06 ± 0.00 (10) **			0.05 ± 0.00 (10)			0.06 ± 0.00 (10)			0.06 ± 0.00 (10)			0.06 ± 0.00 (10)			0.09 ± 0.01 (10) **		
Heart																		
Absolute (g)	1.15 ± 0.03 (10) **			1.21 ± 0.04 (10)			1.13 ± 0.03 (10)			1.17 ± 0.03 (10)			0.94 ± 0.02 (10) **			0.73 ± 0.03 (10) **		
Relative (mg/g)	3.45 ± 0.07 (10)			3.52 ± 0.05 (10)			3.41 ± 0.05 (10)			3.64 ± 0.08 (10)			3.59 ± 0.05 (10)			3.50 ± 0.09 (10)		
R. Kidney																		
Absolute (g)	0.96 ± 0.03 (10) *			1.01 ± 0.02 (10)			0.95 ± 0.02 (10)			1.04 ± 0.02 (10)			0.94 ± 0.03 (10)			0.86 ± 0.02 (10) *		
Relative (mg/g)	2.87 ± 0.04 (10) **			2.93 ± 0.04 (10)			2.87 ± 0.04 (10)			3.22 ± 0.07 (10) **			3.56 ± 0.09 (10) **			4.17 ± 0.07 (10) **		
Liver																		
Absolute (g)	11.87 ± 0.51 (10) **			13.54 ± 0.40 (10) *			14.10 ± 0.38 (10) **			14.65 ± 0.35 (10) **			14.40 ± 0.20 (10) **			14.11 ± 0.70 (10) **		
Relative (mg/g)	35.50 ± 0.97 (10) **			39.32 ± 0.53 (10) **			42.61 ± 0.56 (10) **			45.56 ± 0.84 (10) **			54.77 ± 0.68 (10) **			67.90 ± 1.19 (10) **		
Lung																		
Absolute (g)	1.91 ± 0.08 (10)			1.89 ± 0.08 (10)			2.03 ± 0.09 (10)			2.28 ± 0.16 (10)			2.18 ± 0.12 (10)			1.72 ± 0.09 (10)		
Relative (mg/g)	5.73 ± 0.23 (10) **			5.47 ± 0.17 (10)			6.14 ± 0.25 (10)			7.05 ± 0.44 (10) **			8.28 ± 0.46 (10) **			8.28 ± 0.24 (10) **		
Spleen																		
Absolute (g)	0.624 ± 0.023 (10) **			0.691 ± 0.030 (10)			0.622 ± 0.018 (10)			0.596 ± 0.020 (10)			0.460 ± 0.013 (10) **			0.319 ± 0.023 (10) **		
Relative (mg/g)	1.87 ± 0.05 (10) **			2.00 ± 0.05 (10)			1.88 ± 0.04 (10)			1.86 ± 0.06 (10)			1.75 ± 0.05 (10)			1.52 ± 0.06 (10) **		
R. Testis																		
Absolute (g)	1.777 ± 0.057 (9) **			1.797 ± 0.048 (10)			1.742 ± 0.038 (10)			1.740 ± 0.030 (10)			1.695 ± 0.034 (10)			1.553 ± 0.062 (10) **		
Relative (mg/g)	5.31 ± 0.08 (9) **			5.22 ± 0.08 (10)			5.28 ± 0.12 (10)			5.42 ± 0.12 (10)			6.46 ± 0.17 (10) **			7.52 ± 0.21 (10) **		
Thymus																		
Absolute (g)	0.393 ± 0.013 (10) **			0.397 ± 0.010 (10)			0.392 ± 0.022 (10)			0.391 ± 0.011 (10)			0.221 ± 0.015 (10) **			0.099 ± 0.014 (10) **		
Relative (mg/g)	1.18 ± 0.03 (10) **			1.16 ± 0.03 (10)			1.18 ± 0.05 (10)			1.22 ± 0.03 (10)			0.84 ± 0.05 (10) **			0.46 ± 0.05 (10) **		
Thyroid gland																		
Absolute (g)	0.0239 ± 0.0012 (10)			0.0236 ± 0.0013 (10)			0.0242 ± 0.0029 (10)			0.0253 ± 0.0017 (10)			0.0268 ± 0.0012 (10)			0.0207 ± 0.0010 (10)		
Relative (mg/g)	0.07 ± 0.00 (10) **			0.07 ± 0.00 (10)			0.07 ± 0.01 (10)			0.08 ± 0.01 (10)			0.10 ± 0.01 (10) **			0.10 ± 0.00 (10) **		

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		Females																	
		Treatment Groups (mg/kg/day)																	
		0			0.156			0.312			0.625			1.25			2.5		
Terminal Body Wt.		227.0	± 4.4	(10) **	236.8	± 4.4	(10)	236.0	± 3.3	(10)	227.3	± 5.1	(10)	198.9	± 4.4	(10) **	145.4	± 4.3	(10) **
R. Adrenal gland																			
	Absolute (g)	0.0275 ± 0.0009 (10) **			0.0286 ± 0.0017 (10)			0.0277 ± 0.0015 (10)			0.0289 ± 0.0005 (10)			0.0239 ± 0.0014 (10)			0.0176 ± 0.0010 (10) **		
	Relative (mg/g)	0.12 ± 0.00 (10)			0.12 ± 0.01 (10)			0.12 ± 0.01 (10)			0.13 ± 0.00 (10)			0.12 ± 0.01 (10)			0.12 ± 0.01 (10)		
Heart																			
	Absolute (g)	0.87 ± 0.03 (10) **			0.88 ± 0.03 (10)			0.88 ± 0.02 (10)			0.85 ± 0.02 (10)			0.74 ± 0.02 (10) **			0.56 ± 0.02 (10) **		
	Relative (mg/g)	3.83 ± 0.10 (10)			3.70 ± 0.07 (10)			3.72 ± 0.08 (10)			3.75 ± 0.05 (10)			3.70 ± 0.07 (10)			3.86 ± 0.11 (10)		
R. Kidney																			
	Absolute (g)	0.68 ± 0.01 (10)			0.72 ± 0.01 (10)			0.74 ± 0.01 (10) **			0.78 ± 0.01 (10) **			0.72 ± 0.02 (10)			0.58 ± 0.01 (10) **		
	Relative (mg/g)	3.00 ± 0.06 (10) **			3.06 ± 0.04 (10)			3.15 ± 0.05 (10)			3.44 ± 0.06 (10) **			3.61 ± 0.08 (10) **			4.01 ± 0.08 (10) **		
Liver																			
	Absolute (g)	7.63 ± 0.28 (10) **			8.94 ± 0.36 (10) **			9.46 ± 0.16 (10) **			10.06 ± 0.31 (10) **			10.09 ± 0.18 (10) **			9.85 ± 0.32 (10) **		
	Relative (mg/g)	33.52 ± 0.75 (10) **			37.66 ± 0.89 (10) **			40.08 ± 0.56 (10) **			44.25 ± 0.82 (10) **			50.84 ± 0.67 (10) **			67.75 ± 0.90 (10) **		
Lung																			
	Absolute (g)	1.74 ± 0.09 (10)			1.83 ± 0.11 (10)			1.69 ± 0.09 (10)			1.81 ± 0.09 (10)			1.79 ± 0.10 (10)			1.55 ± 0.08 (10)		
	Relative (mg/g)	7.68 ± 0.34 (10) **			7.72 ± 0.40 (10)			7.14 ± 0.35 (10)			7.92 ± 0.26 (10)			9.01 ± 0.46 (10) *			10.74 ± 0.60 (10) **		
Spleen																			
	Absolute (g)	0.591 ± 0.017 (10) **			0.596 ± 0.021 (10)			0.582 ± 0.021 (10)			0.538 ± 0.017 (10)			0.377 ± 0.019 (10) **			0.264 ± 0.018 (10) **		
	Relative (mg/g)	2.60 ± 0.04 (10) **			2.52 ± 0.06 (10)			2.46 ± 0.07 (10)			2.36 ± 0.05 (10) *			1.89 ± 0.06 (10) **			1.81 ± 0.10 (10) **		
Thymus																			
	Absolute (g)	0.290 ± 0.016 (10) **			0.304 ± 0.020 (10)			0.342 ± 0.035 (10)			0.316 ± 0.016 (10)			0.233 ± 0.017 (10)			0.102 ± 0.015 (10) **		
	Relative (mg/g)	1.28 ± 0.07 (10) **			1.29 ± 0.09 (10)			1.44 ± 0.14 (10)			1.39 ± 0.06 (10)			1.18 ± 0.10 (10)			0.69 ± 0.09 (10) **		
Thyroid gland																			
	Absolute (g)	0.0253 ± 0.0010 (10)			0.0288 ± 0.0019 (10)			0.0336 ± 0.0016 (10) **			0.0340 ± 0.0022 (10) **			0.0321 ± 0.0023 (10) *			0.0236 ± 0.0012 (10)		
	Relative (mg/g)	0.11 ± 0.00 (10) **			0.12 ± 0.01 (10)			0.14 ± 0.01 (10) *			0.15 ± 0.01 (10) **			0.16 ± 0.01 (10) **			0.16 ± 0.01 (10) **		
Uterus																			
	Absolute (g)	0.731 ± 0.086 (10) **			0.646 ± 0.029 (10)			0.691 ± 0.057 (10)			0.818 ± 0.110 (10)			0.409 ± 0.040 (10) **			0.260 ± 0.009 (10) **		
	Relative (mg/g)	3.26 ± 0.41 (10) **			2.73 ± 0.13 (10)			2.94 ± 0.25 (10)			3.65 ± 0.53 (10)			2.05 ± 0.19 (10) **			1.81 ± 0.10 (10) **		

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LEGEND

Data are displayed as mean \pm SEM (N)

Relative organ weights (organ-weight-to-body-weight ratios) are given as mg organ weight/g body weight

Statistical analysis performed by Jonckheere (trend) and William or Dunnett (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 $P \leq 0.01$

**** END OF REPORT ****