

Experiment Number: C20617

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA06: Organ Weights Summary

Test Compound: Perfluorooctane Sulfonate

CAS Number: 1763-23-1

Date Report Requested: 07/06/2017

Time Report Requested: 06:56:01

Lab: Battelle

C Number: C20617

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			0.312			0.625			1.25			2.5			5		
Terminal Body Wt.	337.4	± 6.7	(10) **	339.7	± 4.8	(10)	338.0	± 6.8	(10)	330.8	± 4.4	(10)	332.6	± 4.0	(10)	309.3	± 4.2	(10) **
R. Adrenal gland																		
Absolute (g)	0.0211 ± 0.0008 (10) **			0.0180 ± 0.0010 (10)			0.0210 ± 0.0006 (10)			0.0177 ± 0.0008 (10) *			0.0190 ± 0.0012 (10) *			0.0173 ± 0.0005 (10) **		
Relative (mg/g)	0.06 ± 0.00 (10)			0.05 ± 0.00 (10)			0.06 ± 0.00 (10)			0.05 ± 0.00 (10)			0.06 ± 0.00 (10)			0.06 ± 0.00 (10)		
Heart																		
Absolute (g)	1.19 ± 0.03 (10) *			1.20 ± 0.02 (10)			1.18 ± 0.03 (10)			1.17 ± 0.02 (10)			1.19 ± 0.01 (10)			1.08 ± 0.03 (10) *		
Relative (mg/g)	3.53 ± 0.04 (10)			3.54 ± 0.05 (10)			3.50 ± 0.08 (10)			3.55 ± 0.06 (10)			3.57 ± 0.03 (10)			3.50 ± 0.07 (10)		
R. Kidney																		
Absolute (g)	0.97 ± 0.03 (10)			1.00 ± 0.02 (10)			1.01 ± 0.03 (10)			1.01 ± 0.02 (10)			1.03 ± 0.02 (10)			1.01 ± 0.02 (10)		
Relative (mg/g)	2.87 ± 0.06 (10) **			2.94 ± 0.05 (10)			2.97 ± 0.04 (10)			3.06 ± 0.06 (10) *			3.09 ± 0.04 (10) **			3.26 ± 0.06 (10) **		
Liver																		
Absolute (g)	11.79 ± 0.29 (10) **			13.14 ± 0.28 (10) **			14.21 ± 0.32 (10) **			15.34 ± 0.37 (10) **			17.37 ± 0.36 (10) **			18.81 ± 0.41 (10) **		
Relative (mg/g)	34.92 ± 0.22 (10) **			38.66 ± 0.47 (10) **			42.04 ± 0.48 (10) **			46.38 ± 0.99 (10) **			52.21 ± 0.93 (10) **			60.80 ± 0.77 (10) **		
Lung																		
Absolute (g)	1.97 ± 0.06 (10)			2.08 ± 0.06 (10)			2.16 ± 0.08 (10)			2.13 ± 0.11 (10)			2.23 ± 0.11 (10)			2.13 ± 0.13 (10)		
Relative (mg/g)	5.86 ± 0.21 (10) *			6.14 ± 0.19 (10)			6.41 ± 0.27 (10)			6.46 ± 0.39 (10)			6.70 ± 0.29 (10)			6.87 ± 0.38 (10)		
Spleen																		
Absolute (g)	0.688 ± 0.014 (10) **			0.708 ± 0.019 (10)			0.686 ± 0.021 (10)			0.617 ± 0.025 (10) *			0.611 ± 0.033 (10) *			0.593 ± 0.019 (10) **		
Relative (mg/g)	2.04 ± 0.05 (10) *			2.09 ± 0.05 (10)			2.04 ± 0.09 (10)			1.87 ± 0.08 (10)			1.84 ± 0.10 (10)			1.92 ± 0.06 (10)		
R. Testis																		
Absolute (g)	1.836 ± 0.026 (10)			1.813 ± 0.040 (10)			1.792 ± 0.042 (10)			1.761 ± 0.033 (10)			1.788 ± 0.045 (10)			1.816 ± 0.044 (10)		
Relative (mg/g)	5.46 ± 0.11 (10)			5.34 ± 0.10 (10)			5.31 ± 0.12 (10)			5.33 ± 0.12 (10)			5.38 ± 0.11 (10)			5.88 ± 0.18 (10)		
Thymus																		
Absolute (g)	0.431 ± 0.023 (10) **			0.465 ± 0.013 (10)			0.412 ± 0.023 (10)			0.401 ± 0.022 (10)			0.385 ± 0.011 (10)			0.322 ± 0.018 (10) **		
Relative (mg/g)	1.28 ± 0.08 (10) **			1.37 ± 0.04 (10)			1.21 ± 0.05 (10)			1.21 ± 0.05 (10)			1.16 ± 0.03 (10)			1.04 ± 0.04 (10) **		
Thyroid gland																		
Absolute (g)	0.0255 ± 0.0006 (10) **			0.0250 ± 0.0016 (10)			0.0245 ± 0.0008 (10)			0.0236 ± 0.0014 (10)			0.0224 ± 0.0012 (10)			0.0216 ± 0.0012 (10) *		
Relative (mg/g)	0.08 ± 0.00 (10)			0.07 ± 0.00 (10)			0.07 ± 0.00 (10)			0.07 ± 0.00 (10)			0.07 ± 0.00 (10)			0.07 ± 0.00 (10)		

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		Females																	
		Treatment Groups (mg/kg/day)																	
		0			0.312			0.625			1.25			2.5			5		
Terminal Body Wt.		219.4	± 3.1	(10) **	228.4	± 4.0	(10)	221.9	± 2.4	(10)	219.0	± 3.5	(10)	214.7	± 3.5	(10)	204.8	± 3.5	(9) **
R. Adrenal gland																			
	Absolute (g)	0.0268 ± 0.0013 (10) **			0.0284 ± 0.0017 (10)			0.0245 ± 0.0009 (10)			0.0263 ± 0.0005 (10)			0.0237 ± 0.0006 (10)			0.0240 ± 0.0014 (9)		
	Relative (mg/g)	0.12 ± 0.01 (10)			0.12 ± 0.01 (10)			0.11 ± 0.00 (10)			0.12 ± 0.00 (10)			0.11 ± 0.00 (10)			0.12 ± 0.01 (9)		
Heart																			
	Absolute (g)	0.84 ± 0.01 (10) **			0.87 ± 0.02 (10)			0.86 ± 0.02 (10)			0.87 ± 0.02 (10)			0.82 ± 0.02 (10)			0.72 ± 0.01 (9) **		
	Relative (mg/g)	3.84 ± 0.08 (10) *			3.79 ± 0.06 (10)			3.89 ± 0.06 (10)			3.96 ± 0.07 (10)			3.80 ± 0.05 (10)			3.51 ± 0.06 (9) **		
R. Kidney																			
	Absolute (g)	0.65 ± 0.02 (10)			0.71 ± 0.01 (10) *			0.71 ± 0.01 (10) *			0.71 ± 0.02 (10)			0.70 ± 0.02 (10)			0.64 ± 0.02 (9)		
	Relative (mg/g)	2.96 ± 0.05 (10) *			3.12 ± 0.05 (10)			3.20 ± 0.05 (10) *			3.23 ± 0.06 (10) **			3.24 ± 0.07 (10) **			3.13 ± 0.06 (9)		
Liver																			
	Absolute (g)	7.37 ± 0.18 (10) **			8.26 ± 0.22 (10) *			8.20 ± 0.17 (10) *			8.59 ± 0.26 (10) **			9.17 ± 0.28 (10) **			10.92 ± 0.29 (9) **		
	Relative (mg/g)	33.56 ± 0.66 (10) **			36.15 ± 0.54 (10) *			36.95 ± 0.73 (10) *			39.25 ± 1.06 (10) **			42.67 ± 0.87 (10) **			53.37 ± 1.48 (9) **		
Lung																			
	Absolute (g)	1.58 ± 0.07 (10)			1.78 ± 0.12 (10)			1.85 ± 0.05 (10)			2.03 ± 0.12 (9) *			1.87 ± 0.13 (10)			1.84 ± 0.12 (9)		
	Relative (mg/g)	7.23 ± 0.34 (10) **			7.78 ± 0.43 (10)			8.35 ± 0.27 (10)			9.30 ± 0.55 (9) *			8.69 ± 0.54 (10) **			8.99 ± 0.58 (9) *		
Spleen																			
	Absolute (g)	0.588 ± 0.031 (10) *			0.607 ± 0.024 (10)			0.548 ± 0.015 (10)			0.573 ± 0.029 (10)			0.541 ± 0.026 (10)			0.510 ± 0.014 (9)		
	Relative (mg/g)	2.68 ± 0.13 (10)			2.65 ± 0.07 (10)			2.47 ± 0.06 (10)			2.61 ± 0.09 (10)			2.52 ± 0.11 (10)			2.49 ± 0.06 (9)		
Thymus																			
	Absolute (g)	0.312 ± 0.021 (10)			0.276 ± 0.007 (10)			0.297 ± 0.010 (10)			0.258 ± 0.014 (10) *			0.295 ± 0.013 (10)			0.251 ± 0.015 (9) *		
	Relative (mg/g)	1.42 ± 0.09 (10)			1.21 ± 0.03 (10)			1.34 ± 0.04 (10)			1.18 ± 0.06 (10) *			1.37 ± 0.05 (10)			1.23 ± 0.07 (9)		
Thyroid gland																			
	Absolute (g)	0.0225 ± 0.0009 (10)			0.0217 ± 0.0011 (10)			0.0229 ± 0.0011 (10)			0.0237 ± 0.0016 (10)			0.0233 ± 0.0011 (10)			0.0219 ± 0.0011 (9)		
	Relative (mg/g)	0.10 ± 0.00 (10)			0.10 ± 0.01 (10)			0.10 ± 0.00 (10)			0.11 ± 0.01 (10)			0.11 ± 0.01 (10)			0.11 ± 0.01 (9)		
Uterus																			
	Absolute (g)	0.885 ± 0.140 (10)			0.699 ± 0.072 (10)			0.734 ± 0.044 (10)			0.773 ± 0.066 (10)			0.750 ± 0.103 (10)			0.614 ± 0.046 (9)		
	Relative (mg/g)	4.04 ± 0.63 (10)			3.09 ± 0.33 (10)			3.31 ± 0.20 (10)			3.54 ± 0.31 (10)			3.49 ± 0.48 (10)			3.00 ± 0.23 (9)		

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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 ****