

Experiment Number: C20614B-02
Test Type: TOX
Route: Dosing in Feed
Species/Strain: Rat/Sprague Dawley

PA06: Organ Weights Summary
Test Compound: Perfluorooctanoic Acid
CAS Number: 335-67-1

Date Report Requested: 08/29/2018
Time Report Requested: 11:11:52
Lab: NTP

C Number:

C20614B-02

Study Gender:

Both

PWG Approval Date

See web page for date of PWG Approval

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F1 Males: Non-Perinatal

	Treatment Groups (ppm)											
	0/0			0/20			0/40			0/80		
Terminal Body Wt.	429.8	± 12.1	(10) **	389.5	± 7.9	(10) **	351.8	± 8.7	(10) **	348.4	± 10.2	(10) **
R. Adrenal gland												
Absolute (g)	0.0220 ± 0.0013	(10) *	0.0191 ± 0.0009	(10)	0.0201 ± 0.0013	(10)	0.0169 ± 0.0010	(10) **				
Relative (mg/g)	0.05 ± 0.00	(10)	0.05 ± 0.00	(10)	0.06 ± 0.00	(10)	0.05 ± 0.00	(10)				
Heart												
Absolute (g)	1.45 ± 0.04	(10) **	1.37 ± 0.05	(10)	1.26 ± 0.03	(10) **	1.19 ± 0.05	(10) **				
Relative (mg/g)	3.36 ± 0.03	(10)	3.50 ± 0.10	(10)	3.59 ± 0.05	(10) *	3.42 ± 0.05	(10)				
R. Kidney												
Absolute (g)	1.14 ± 0.04	(10)	1.31 ± 0.03	(10) **	1.26 ± 0.04	(10)	1.19 ± 0.04	(10)				
Relative (mg/g)	2.66 ± 0.06	(10) **	3.36 ± 0.07	(10) **	3.59 ± 0.04	(10) **	3.42 ± 0.06	(10) **				
Liver												
Absolute (g)	14.62 ± 0.43	(10) **	17.99 ± 0.42	(10) **	18.80 ± 0.76	(10) **	19.74 ± 0.90	(10) **				
Relative (mg/g)	34.10 ± 0.81	(10) **	46.24 ± 0.90	(10) **	53.38 ± 1.49	(10) **	56.56 ± 1.71	(10) **				
Lung												
Absolute (g)	2.30 ± 0.14	(10) **	2.08 ± 0.13	(10)	1.98 ± 0.07	(10) *	1.83 ± 0.07	(10) **				
Relative (mg/g)	5.35 ± 0.28	(10)	5.33 ± 0.27	(10)	5.65 ± 0.23	(10)	5.24 ± 0.15	(10)				
Pituitary gland												
Absolute (g)	0.0199 ± 0.0007	(10) **	0.0160 ± 0.0005	(10) **	0.0142 ± 0.0007	(10) **	0.0151 ± 0.0007	(10) **				
Relative (mg/g)	0.05 ± 0.00	(10)	0.04 ± 0.00	(10)	0.04 ± 0.00	(10)	0.04 ± 0.00	(10)				
Spleen												
Absolute (g)	0.793 ± 0.029	(10) **	0.634 ± 0.025	(10) **	0.564 ± 0.014	(10) **	0.577 ± 0.031	(10) **				
Relative (mg/g)	1.85 ± 0.08	(10) *	1.63 ± 0.05	(10) *	1.61 ± 0.05	(10) *	1.66 ± 0.07	(10)				
R. Testis												
Absolute (g)	1.895 ± 0.139	(10)	2.026 ± 0.027	(10)	1.991 ± 0.086	(10)	2.112 ± 0.038	(10)				
Relative (mg/g)	4.41 ± 0.33	(10) **	5.22 ± 0.09	(10) *	5.66 ± 0.20	(10) **	6.10 ± 0.18	(10) **				
Thymus												
Absolute (g)	0.336 ± 0.024	(10) *	0.338 ± 0.017	(10)	0.316 ± 0.019	(10)	0.284 ± 0.014	(10)				
Relative (mg/g)	0.78 ± 0.04	(10)	0.87 ± 0.05	(10)	0.90 ± 0.06	(10)	0.82 ± 0.04	(10)				

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Treatment Groups (ppm)

	0/0	0/20	0/40	0/80
Thyroid gland				
Absolute (g)	0.0354 ± 0.0027 (10) *	0.0313 ± 0.0024 (10)	0.0260 ± 0.0018 (10) **	0.0284 ± 0.0015 (10)
Relative (mg/g)	0.08 ± 0.01 (10)	0.08 ± 0.01 (10)	0.07 ± 0.00 (10)	0.08 ± 0.00 (10)

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F1 Males: Perinatal

Treatment Groups (ppm)

	300/0			300/20			300/40			300/80		
Terminal Body Wt.	414.6	± 7.5	(10) **	390.5 ± 7.7	(10) †		367.5 ± 7.2	(10) ** ††		338.4 ± 13.7	(10) ** ††	
R. Adrenal gland												
Absolute (g)	0.0216 ± 0.0016	(10)		0.0182 ± 0.0015	(10)		0.0180 ± 0.0022	(10)		0.0173 ± 0.0010	(10) †	
Relative (mg/g)	0.05 ± 0.00	(10)		0.05 ± 0.00	(10)		0.05 ± 0.01	(10)		0.05 ± 0.00	(10)	
Heart												
Absolute (g)	1.41 ± 0.03	(10) **		1.38 ± 0.03	(10)		1.29 ± 0.04	(10) †		1.20 ± 0.06	(10) ** ††	
Relative (mg/g)	3.40 ± 0.07	(10)		3.55 ± 0.06	(10) †		3.51 ± 0.06	(10)		3.53 ± 0.06	(10)	
R. Kidney												
Absolute (g)	1.17 ± 0.02	(10)		1.27 ± 0.02	(10) †		1.23 ± 0.03	(10)		1.18 ± 0.05	(10)	
Relative (mg/g)	2.83 ± 0.04	(10) **		3.26 ± 0.05	(10) ** ††		3.35 ± 0.05	(10) ** ## ††		3.47 ± 0.05	(10) ** ††	
Liver												
Absolute (g)	13.57 ± 0.30	(10) **		17.33 ± 0.66	(10) ** ††		18.49 ± 0.47	(10) ** ††		18.64 ± 1.04	(10) ** ††	
Relative (mg/g)	32.73 ± 0.43	(10) **		44.27 ± 1.02	(10) ** ††		50.30 ± 0.76	(10) ** ††		55.07 ± 2.18	(10) ** ††	
Lung												
Absolute (g)	2.07 ± 0.07	(10) **		2.03 ± 0.08	(10)		1.95 ± 0.08	(10)		1.73 ± 0.09	(10) ** ††	
Relative (mg/g)	4.99 ± 0.16	(10)		5.18 ± 0.14	(10)		5.29 ± 0.20	(10)		5.11 ± 0.13	(10)	
Pituitary gland												
Absolute (g)	0.0161 ± 0.0008	(10) #		0.0149 ± 0.0010	(10) ††		0.0157 ± 0.0010	(10) ††		0.0143 ± 0.0008	(10) ††	
Relative (mg/g)	0.04 ± 0.00	(10)		0.04 ± 0.00	(10)		0.04 ± 0.00	(10)		0.04 ± 0.00	(10)	
Spleen												
Absolute (g)	0.648 ± 0.016	(10) ** ##		0.643 ± 0.025	(10) ††		0.589 ± 0.015	(10) ††		0.540 ± 0.035	(10) ** ††	
Relative (mg/g)	1.57 ± 0.04	(10) #		1.64 ± 0.04	(10) †		1.60 ± 0.02	(10) †		1.59 ± 0.06	(10) †	
R. Testis												
Absolute (g)	1.996 ± 0.043	(10)		2.103 ± 0.044	(10)		2.064 ± 0.040	(10)		1.992 ± 0.057	(10)	
Relative (mg/g)	4.83 ± 0.13	(10) **		5.39 ± 0.10	(10) ** †		5.63 ± 0.11	(10) ** †		5.94 ± 0.21	(10) ** ††	
Thymus												
Absolute (g)	0.351 ± 0.015	(10)		0.344 ± 0.016	(10)		0.313 ± 0.021	(10)		0.296 ± 0.026	(10)	
Relative (mg/g)	0.85 ± 0.04	(10)		0.88 ± 0.04	(10)		0.86 ± 0.06	(10)		0.86 ± 0.05	(10)	

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	300/0	300/20	300/40	300/80
Thyroid gland				
Absolute (g)	0.0321 ± 0.0014 (10)	0.0308 ± 0.0020 (10)	0.0324 ± 0.0018 (10)	0.0285 ± 0.0014 (10)
Relative (mg/g)	0.08 ± 0.00 (10)	0.08 ± 0.00 (10)	0.09 ± 0.00 (10)	0.09 ± 0.01 (10)

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LEGEND

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

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

Statistical significance for a treatment group indicates a significant pairwise test compared to the specified control group. Statistical significance for the control group indicates a significant trend test.

* Statistically significant at $P \leq 0.05$ for trend or pairwise comparison of (0/0 to 0/20, 0/40, and 0/80) or (300/0 to 300/20, 300/40, and 300/80), using Jonckheere's (trend) test and Williams'/Dunnett's (pairwise) tests.

** Statistically significant at $P \leq 0.01$ for trend or pairwise comparison of (0/0 to 0/20, 0/40, and 0/80) or (300/0 to 300/20, 300/40, and 300/80), using Jonckheere's (trend) test and Williams'/Dunnett's (pairwise) tests.

Statistically significant at $P \leq 0.05$ for pairwise comparisons of 0/0 to 300/0, 0/20 to 300/20, 0/40 to 300/40, and 0/80 to 300/80 using a t-test with a Hommel p-value adjustment.

Statistically significant at $P \leq 0.01$ for pairwise comparisons of 0/0 to 300/0, 0/20 to 300/20, 0/40 to 300/40, and 0/80 to 300/80 using a t-test with a Hommel p-value adjustment.

† Statistically significant at $P \leq 0.05$ for pairwise comparisons of 0/0 to 300/20, 0/0 to 300/40, and 0/0 to 300/80 using a t-test with a Hommel p-value adjustment.

†† Statistically significant at $P \leq 0.01$ for pairwise comparisons of 0/0 to 300/20, 0/0 to 300/40, and 0/0 to 300/80 using a t-test with a Hommel p-value adjustment.

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