

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

PA41: Clinical Chemistry Summary
Test Compound: Perfluorooctanoic Acid
CAS Number: 335-67-1

Date Report Requested: 08/28/2018
Time Report Requested: 15:12:13
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 Male: Non-Perinatal

	Phase Day	Treatment Groups (ppm)			
		0/0	0/20	0/40	0/80
Urea Nitrogen (mg/dL)	SD 108	17.0 ± 0.3 (10) **	18.6 ± 0.7 (10)	20.4 ± 0.7 (10) **	19.8 ± 0.8 (10) **
Creatinine (mg/dL)	SD 108	0.73 ± 0.02 (10)	0.70 ± 0.01 (10)	0.63 ± 0.02 (10) **	0.70 ± 0.00 (10)
Glucose (mg/dL)	SD 108	156.0 ± 11.2 (10)	148.4 ± 9.1 (10)	146.2 ± 7.7 (10)	143.4 ± 6.9 (10)
Total Protein (g/dL)	SD 108	6.58 ± 0.06 (10) **	6.13 ± 0.10 (10) **	5.92 ± 0.07 (10) **	5.98 ± 0.07 (10) **
Globulin (g/dL)	SD 108	2.34 ± 0.05 (10) **	1.60 ± 0.06 (10) **	1.31 ± 0.07 (10) **	1.33 ± 0.06 (10) **
A/G Ratio	SD 108	1.82 ± 0.06 (10) **	2.87 ± 0.13 (10) **	3.60 ± 0.18 (10) **	3.55 ± 0.16 (10) **
Albumin (g/dL)	SD 108	4.24 ± 0.06 (10) **	4.53 ± 0.10 (10)	4.61 ± 0.06 (10) **	4.65 ± 0.06 (10) **
Cholesterol (mg/dL)	SD 108	132.4 ± 5.4 (10)	114.3 ± 5.1 (10)	117.9 ± 4.9 (10)	120.7 ± 3.6 (10)
Triglyceride (mg/dL)	SD 108	98.8 ± 6.1 (10)	58.4 ± 4.3 (10) **	64.2 ± 4.5 (10) **	73.1 ± 6.9 (10)
Alanine Aminotransferase (IU/L)	SD 108	44.70 ± 2.62 (10) **	76.40 ± 5.25 (10) **	65.90 ± 2.85 (10) **	74.00 ± 3.64 (10) **
Alkaline Phosphatase (IU/L)	SD 108	170.1 ± 4.9 (10) **	238.7 ± 10.8 (10) **	246.8 ± 14.8 (10) **	304.8 ± 15.7 (10) **
Creatine Kinase (IU/L)	SD 108	218.0 ± 50.9 (10)	332.0 ± 90.3 (10)	318.5 ± 74.5 (10)	274.4 ± 57.8 (10)
Sorbitol Dehydrogenase (IU/L)	SD 108	9.4 ± 0.8 (10) **	15.3 ± 1.3 (10) **	12.7 ± 1.2 (10) *	16.8 ± 0.9 (10) **
Bile salt/acids (µmol/L)	SD 108	28.4 ± 4.9 (10)	29.6 ± 4.2 (10)	48.2 ± 10.5 (10)	32.6 ± 4.3 (10)

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F1 Male: Perinatal

	Phase Day	Treatment Groups (ppm)			
		300/0	300/20	300/40	300/80
Urea Nitrogen (mg/dL)	SD 108	16.4 ± 0.5 (10) **	18.0 ± 0.4 (10) *	20.3 ± 0.7 (10) ** ††	22.4 ± 1.4 (10) ** ††
Creatinine (mg/dL)	SD 108	0.70 ± 0.00 (10)	0.70 ± 0.01 (10)	0.69 ± 0.02 (10)	0.69 ± 0.01 (10)
Glucose (mg/dL)	SD 108	135.1 ± 5.1 (10)	149.9 ± 7.8 (10)	146.7 ± 12.0 (10)	147.0 ± 7.0 (10)
Total Protein (g/dL)	SD 108	6.45 ± 0.07 (10)	6.15 ± 0.07 (10) * ††	5.96 ± 0.06 (10) ** ††	6.32 ± 0.09 (10) # †
Globulin (g/dL)	SD 108	2.14 ± 0.06 (10) **	1.55 ± 0.07 (10) ** ††	1.45 ± 0.05 (10) ** ††	1.41 ± 0.10 (10) ** ††
A/G Ratio	SD 108	2.03 ± 0.05 (10) **	3.02 ± 0.13 (10) ** ††	3.14 ± 0.12 (10) ** ††	3.64 ± 0.27 (10) ** ††
Albumin (g/dL)	SD 108	4.31 ± 0.04 (10) **	4.60 ± 0.07 (10) ** ††	4.51 ± 0.07 (10) * †	4.91 ± 0.06 (10) ** # ††
Cholesterol (mg/dL)	SD 108	132.6 ± 4.6 (10)	105.8 ± 4.1 (10) ** ††	118.9 ± 4.1 (10)	115.1 ± 3.9 (10) †
Triglyceride (mg/dL)	SD 108	93.3 ± 7.9 (10) *	59.9 ± 4.6 (10) * ††	67.5 ± 7.0 (10) ††	62.2 ± 5.0 (10) * ††
Alanine Aminotransferase (IU/L)	SD 108	51.20 ± 2.25 (10) **	67.00 ± 2.17 (10) ** ††	68.50 ± 7.95 (10) ** ††	70.00 ± 4.49 (10) ** ††
Alkaline Phosphatase (IU/L)	SD 108	173.4 ± 6.6 (10) **	241.4 ± 6.8 (10) ** ††	263.5 ± 13.0 (10) ** ††	270.8 ± 11.3 (10) ** ††
Creatine Kinase (IU/L)	SD 108	421.5 ± 74.7 (10) *	364.6 ± 63.0 (10)	209.6 ± 38.5 (10) *	236.0 ± 36.0 (10)
Sorbitol Dehydrogenase (IU/L)	SD 108	9.8 ± 0.6 (10) **	13.6 ± 1.3 (10) * †	18.3 ± 3.5 (10) * †	17.1 ± 1.9 (10) ** ††
Bile salt/acids (µmol/L)	SD 108	28.0 ± 2.0 (10) *	44.4 ± 6.3 (10) * †	41.8 ± 3.6 (10) * †	40.6 ± 4.5 (10) *

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LEGEND

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

SD – Study Day; GD – Gestation Day; LD – Lactation Day; PND – Postnatal Day, adults post-weaning

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 Shirley's/Dunn'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 Shirley's/Dunn'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 Wilcoxon rank-sum 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 Wilcoxon rank-sum 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 Wilcoxon rank-sum 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 Wilcoxon rank-sum test with a Hommel p-value adjustment.

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