

Experiment Number: C91070B

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA41: Clinical Chemistry Summary

Test Compound: Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 04/04/2018

Time Report Requested: 13:53:27

Lab: Battelle

C Number: C91070B

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Male

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Male

	Phase Day	Treatment Groups (mg/kg/day)																								
		0				0.625				1.25				2.5				5								
Urea Nitrogen (mg/dL)	SD 28	16.6	±	0.4	(10)	**	15.9	±	0.7	(10)	20.3	±	0.5	(10)	**	19.6	±	1.0	(10)	**	18.1	±	0.9	(10)	*	
Percent of Control							95.8				122.3					118.1					109.0					
Creatinine (mg/dL)	SD 28	0.77	±	0.04	(10)	**	0.70	±	0.00	(10)	*	0.69	±	0.01	(10)	**	0.70	±	0.01	(10)	*	0.65	±	0.02	(10)	**
Percent of Control							90.91					89.61					90.91				84.42					
Glucose (mg/dL)	SD 28	195.7	±	8.4	(10)	**	183.4	±	9.0	(10)		186.5	±	8.0	(10)		168.2	±	8.0	(10)	*	155.8	±	3.9	(10)	**
Percent of Control							93.7					95.3					85.9				79.6					
Total Protein (g/dL)	SD 28	6.64	±	0.09	(10)	**	6.00	±	0.09	(10)	**	5.92	±	0.05	(10)	**	5.98	±	0.06	(10)	**	5.79	±	0.08	(10)	**
Percent of Control							90.36					89.16					90.06				87.20					
Globulin (g/dL)	SD 28	2.30	±	0.06	(10)	**	1.70	±	0.05	(10)	**	1.57	±	0.06	(10)	**	1.52	±	0.04	(10)	**	1.34	±	0.05	(10)	**
Percent of Control							73.91					68.26					66.09				58.26					
A/G Ratio	SD 28	1.89	±	0.04	(10)	**	2.54	±	0.06	(10)	**	2.81	±	0.13	(10)	**	2.95	±	0.08	(10)	**	3.36	±	0.14	(10)	**
Percent of Control							134.23					148.50					155.64				177.49					
Albumin (g/dL)	SD 28	4.34	±	0.04	(10)	*	4.30	±	0.05	(10)		4.35	±	0.05	(10)		4.46	±	0.06	(10)		4.45	±	0.08	(10)	
Percent of Control							99.08					100.23					102.76				102.53					
Total Bilirubin (mg/dL)	SD 28	0.157	±	0.010	(10)		0.129	±	0.006	(10)		0.119	±	0.005	(10)	*	0.150	±	0.021	(10)		0.122	±	0.005	(10)	*
Percent of Control							82.077					75.690					95.746				77.670					
Direct Bilirubin (mg/dL)	SD 28	0.021	±	0.002	(10)	**	0.017	±	0.001	(10)		0.021	±	0.002	(10)		0.022	±	0.003	(10)		0.026	±	0.002	(10)	
Percent of Control							80.288					101.442					103.365				123.077					
Indirect Bilirubin (mg/dL)	SD 28	0.136	±	0.008	(10)	*	0.112	±	0.007	(10)		0.097	±	0.005	(10)	**	0.128	±	0.020	(10)		0.096	±	0.006	(10)	**
Percent of Control							82.351					71.744					94.579				70.713					
Cholesterol (mg/dL)	SD 28	113.9	±	6.4	(10)		71.8	±	2.3	(10)	**	78.8	±	3.9	(10)	**	76.2	±	3.2	(10)	**	79.9	±	4.5	(10)	**
Percent of Control							63.0					69.2					66.9				70.1					

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Male

	Phase Day	Treatment Groups (mg/kg/day)														
		0			0.625			1.25			2.5			5		
Triglyceride (mg/dL)	SD 28	138.3	± 12.3	(10) **	100.7	± 7.5	(10) *	82.5	± 6.6	(10) **	81.7	± 5.7	(10) **	82.0	± 5.4	(10) **
Percent of Control						72.8			59.7			59.1			59.3	
Alanine Aminotransferase (IU/L)	SD 28	57.40	± 3.18	(10) **	68.10	± 3.48	(10) *	64.60	± 2.87	(10) *	73.20	± 4.73	(10) **	70.40	± 2.46	(10) **
Percent of Control						118.64			112.54			127.53			122.65	
Alkaline Phosphatase (IU/L)	SD 28	207.3	± 9.1	(10) **	233.2	± 7.8	(10) *	237.6	± 12.2	(10) *	316.0	± 10.6	(10) **	356.4	± 11.9	(10) **
Percent of Control						112.5			114.6			152.4			171.9	
Aspartate Aminotransferase (U/L)	SD 28	66.50	± 2.58	(10) **	70.70	± 2.28	(10)	67.70	± 2.21	(10)	82.40	± 4.74	(10) **	74.20	± 2.50	(10) *
Percent of Control						106.32			101.80			123.91			111.58	
Creatine Kinase (IU/L)	SD 28	125.1	± 9.1	(10) **	124.7	± 8.4	(10)	104.9	± 4.9	(10)	100.9	± 4.7	(10) *	96.5	± 6.0	(10) **
Percent of Control						99.7			83.9			80.7			77.1	
Sorbitol Dehydrogenase (IU/L)	SD 28	11.8	± 1.6	(10)	11.4	± 0.5	(10)	11.8	± 1.2	(10)	12.7	± 1.0	(10)	9.7	± 0.8	(10)
Percent of Control						96.6			100.0			107.6			82.2	
Bile salt/acids (umol/L)	SD 28	12.3	± 2.8	(10) **	9.6	± 2.4	(10)	22.5	± 3.5	(10)	22.0	± 3.6	(10)	28.0	± 3.6	(10) **
Percent of Control						78.0			182.9			178.9			227.6	

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		Treatment Groups	
	Phase Day	10	
Urea Nitrogen (mg/dL)	SD 28	20.1 ± 1.2	(10) *
Percent of Control		121.1	
Creatinine (mg/dL)	SD 28	0.65 ± 0.02	(10) **
Percent of Control		84.42	
Glucose (mg/dL)	SD 28	141.4 ± 5.2	(10) **
Percent of Control		72.3	
Total Protein (g/dL)	SD 28	5.81 ± 0.16	(10) **
Percent of Control		87.50	
Globulin (g/dL)	SD 28	1.35 ± 0.06	(10) **
Percent of Control		58.70	
A/G Ratio	SD 28	3.34 ± 0.11	(10) **
Percent of Control		176.40	
Albumin (g/dL)	SD 28	4.46 ± 0.11	(10)
Percent of Control		102.76	
Total Bilirubin (mg/dL)	SD 28	0.145 ± 0.012	(10)
Percent of Control		92.552	
Direct Bilirubin (mg/dL)	SD 28	0.032 ± 0.004	(10) *
Percent of Control		154.808	
Indirect Bilirubin (mg/dL)	SD 28	0.113 ± 0.010	(10)
Percent of Control		83.014	
Cholesterol (mg/dL)	SD 28	99.8 ± 4.5	(10)
Percent of Control		87.6	

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		Treatment Groups		
	Phase Day	10		
Triglyceride (mg/dL)	SD 28	78.1	± 5.4	(10) **
Percent of Control			56.5	
Alanine Aminotransferase (IU/L)	SD 28	83.50	± 11.21	(10) **
Percent of Control			145.47	
Alkaline Phosphatase (IU/L)	SD 28	391.9	± 40.4	(10) **
Percent of Control			189.0	
Aspartate Aminotransferase (U/L)	SD 28	93.30	± 13.71	(10) **
Percent of Control			140.30	
Creatine Kinase (IU/L)	SD 28	106.3	± 5.8	(10) *
Percent of Control			85.0	
Sorbitol Dehydrogenase (IU/L)	SD 28	16.3	± 4.4	(10)
Percent of Control			138.1	
Bile salt/acids (umol/L)	SD 28	55.4	± 16.1	(10) **
Percent of Control			450.4	

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LEGEND

Values given as mean \pm SEM (N) with Percent of Control calculated by (dosed group mean / control group mean) x 100

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

Clinical Chemistry for gestation phase includes pregnant females only

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 $P \leq 0.01$

Indirect Bilirubin calculated as Total Bilirubin - Direct Bilirubin.

**** END OF REPORT ****