

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: 13:51:34

Lab: Battelle

C Number:

C91070B

Cage Range:

All

Date Range:

All

Reasons For Removal:

All

Removal Date Range:

All

Treatment Groups:

All

Study Gender:

Female

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	Phase Day	Treatment Groups (mg/kg/day)																	
		0				6.25				12.5				25				50	
Urea Nitrogen (mg/dL)	SD 28	16.5	± 0.9	(10) **	17.3	± 0.6	(10)	16.5	± 0.5	(10)	18.4	± 0.6	(10)	19.7	± 1.3	(10)			
Percent of Control					104.8			100.0			111.5			119.4					
Creatinine (mg/dL)	SD 28	0.74	± 0.02	(10)	0.73	± 0.02	(10)	0.73	± 0.02	(10)	0.76	± 0.02	(10)	0.79	± 0.02	(10)			
Percent of Control					98.65			98.65			102.70			106.76					
Glucose (mg/dL)	SD 28	205.0	± 14.2	(10)	207.9	± 17.7	(10)	204.7	± 8.2	(10)	200.4	± 10.3	(10)	186.9	± 8.3	(10)			
Percent of Control					101.4			99.9			97.8			91.2					
Total Protein (g/dL)	SD 28	6.40	± 0.12	(10)	6.40	± 0.06	(10)	6.34	± 0.11	(10)	6.45	± 0.07	(10)	6.69	± 0.07	(10)			
Percent of Control					100.00			99.06			100.78			104.53					
Globulin (g/dL)	SD 28	1.89	± 0.06	(10) **	1.80	± 0.05	(10)	1.69	± 0.05	(10) *	1.66	± 0.03	(10) **	1.66	± 0.05	(10) *			
Percent of Control					95.24			89.42			87.83			87.83					
A/G Ratio	SD 28	2.41	± 0.08	(10) **	2.57	± 0.07	(10)	2.77	± 0.09	(10) **	2.89	± 0.06	(10) **	3.07	± 0.13	(10) **			
Percent of Control					106.86			115.18			120.32			127.42					
Albumin (g/dL)	SD 28	4.51	± 0.08	(10) **	4.60	± 0.05	(10)	4.65	± 0.10	(10)	4.79	± 0.05	(10) **	5.03	± 0.07	(10) **			
Percent of Control					102.00			103.10			106.21			111.53					
Total Bilirubin (mg/dL)	SD 28	0.127	± 0.010	(10)	0.116	± 0.006	(10)	0.114	± 0.006	(10)	0.139	± 0.018	(10)	0.110	± 0.004	(10)			
Percent of Control					91.871			90.292			109.392			87.135					
Direct Bilirubin (mg/dL)	SD 28	0.019	± 0.002	(10)	0.019	± 0.002	(10)	0.022	± 0.001	(10)	0.021	± 0.003	(10)	0.021	± 0.001	(10)			
Percent of Control					101.047			116.754			108.377			107.330					
Indirect Bilirubin (mg/dL)	SD 28	0.108	± 0.011	(10)	0.097	± 0.007	(10)	0.092	± 0.005	(10)	0.118	± 0.016	(10)	0.090	± 0.004	(10)			
Percent of Control					90.242			85.595			109.572			83.550					
Cholesterol (mg/dL)	SD 28	95.5	± 4.8	(10) **	107.8	± 5.2	(10)	96.4	± 4.9	(10)	99.6	± 3.3	(10)	111.5	± 2.9	(10) *			
Percent of Control					112.9			100.9			104.3			116.8					

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	Phase Day	Treatment Groups (mg/kg/day)																	
		0				6.25				12.5				25				50	
Triglyceride (mg/dL)	SD 28	65.9	± 6.5	(10) **	60.6	± 3.2	(10)	73.5	± 6.4	(10)	74.2	± 5.9	(10)	84.0	± 6.6	(10) *			
Percent of Control						92.0			111.5			112.6			127.5				
Alanine Aminotransferase (IU/L)	SD 28	43.20	± 2.55	(10) **	46.90	± 1.80	(10)	45.90	± 1.94	(10)	47.20	± 1.68	(10)	48.30	± 1.49	(10) *			
Percent of Control						108.56			106.25			109.26			111.81				
Alkaline Phosphatase (IU/L)	SD 28	131.6	± 8.2	(10) **	153.7	± 7.3	(10) *	160.8	± 8.3	(10) **	142.9	± 3.7	(10) *	147.6	± 6.8	(10) *			
Percent of Control						116.8			122.2			108.6			112.2				
Aspartate Aminotransferase (U/L)	SD 28	55.00	± 2.04	(10)	55.20	± 2.01	(10)	57.90	± 1.69	(10)	61.20	± 4.60	(10)	57.00	± 1.46	(10)			
Percent of Control						100.36			105.27			111.27			103.64				
Creatine Kinase (IU/L)	SD 28	85.2	± 7.0	(10)	84.4	± 3.8	(10)	88.8	± 5.0	(10)	80.1	± 3.3	(10)	79.5	± 1.8	(10)			
Percent of Control						99.1			104.2			94.0			93.3				
Sorbitol Dehydrogenase (IU/L)	SD 28	5.6	± 0.9	(10)	6.3	± 0.6	(10)	5.8	± 0.7	(10)	6.1	± 0.5	(10)	6.7	± 0.6	(10)			
Percent of Control						112.5			103.6			108.9			119.6				
Bile salt/acids (umol/L)	SD 28	12.7	± 3.5	(10) **	13.4	± 3.0	(10)	11.5	± 2.5	(10)	16.9	± 3.0	(10)	19.1	± 2.6	(10)			
Percent of Control						105.5			90.6			133.1			150.4				

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	Phase Day	Treatment Groups
		100
Urea Nitrogen (mg/dL)	SD 28	23.3 ± 2.1 (9) **
Percent of Control		141.4
Creatinine (mg/dL)	SD 28	0.74 ± 0.02 (9)
Percent of Control		100.60
Glucose (mg/dL)	SD 28	175.1 ± 13.7 (9)
Percent of Control		85.4
Total Protein (g/dL)	SD 28	6.49 ± 0.08 (9)
Percent of Control		101.39
Globulin (g/dL)	SD 28	1.47 ± 0.05 (9) **
Percent of Control		77.60
A/G Ratio	SD 28	3.45 ± 0.11 (9) **
Percent of Control		143.44
Albumin (g/dL)	SD 28	5.02 ± 0.06 (9) **
Percent of Control		111.36
Total Bilirubin (mg/dL)	SD 28	0.118 ± 0.005 (9)
Percent of Control		93.221
Direct Bilirubin (mg/dL)	SD 28	0.025 ± 0.002 (9)
Percent of Control		129.145
Indirect Bilirubin (mg/dL)	SD 28	0.093 ± 0.005 (9)
Percent of Control		86.844
Cholesterol (mg/dL)	SD 28	113.9 ± 3.4 (9) **
Percent of Control		119.3

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		Treatment Groups		
	Phase Day	100		
Triglyceride (mg/dL)	SD 28	106.4	± 10.0	(9) **
Percent of Control			161.5	
Alanine Aminotransferase (IU/L)	SD 28	52.00	± 1.71	(9) **
Percent of Control			120.37	
Alkaline Phosphatase (IU/L)	SD 28	175.8	± 6.4	(9) **
Percent of Control			133.6	
Aspartate Aminotransferase (U/L)	SD 28	55.67	± 1.51	(9)
Percent of Control			101.21	
Creatine Kinase (IU/L)	SD 28	73.3	± 3.8	(9)
Percent of Control			86.1	
Sorbitol Dehydrogenase (IU/L)	SD 28	6.4	± 0.6	(9)
Percent of Control			115.1	
Bile salt/acids (umol/L)	SD 28	19.8	± 2.9	(9)
Percent of Control			155.7	

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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 ****