

Experiment Number: C04049

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

C Number:

C04049

Cage Range:

All

Date Range:

All

Reasons For Removal:

All

Removal Date Range:

All

Treatment Groups:

All

Study Gender:

Male

PA41: Clinical Chemistry Summary

Test Compound: Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 04/04/2018

Time Report Requested: 13:58:03

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	Phase Day	Treatment Groups (mg/kg/day)												
		0		0.625		1.25		2.5		5				
Urea Nitrogen (mg/dL)	SD 28	18.5	± 0.9	(10) **	21.6	± 0.6	(10) *	24.8	± 0.7	(10) **	27.6	± 1.5	(10) **	13.0 (1)
Percent of Control					116.8			134.1			149.2			70.3
Creatinine (mg/dL)	SD 28	0.73	± 0.02	(10) **	0.72	± 0.01	(10)	0.69	± 0.02	(10)	0.62	± 0.02	(10) **	0.40 (1)
Percent of Control					98.63			94.52			84.93			54.79
Glucose (mg/dL)	SD 28	187.7	± 8.3	(10) **	201.8	± 6.5	(10)	168.1	± 6.0	(10)	103.8	± 5.3	(10) **	125.0 (1)
Percent of Control					107.5			89.6			55.3			66.6
Total Protein (g/dL)	SD 28	6.56	± 0.04	(10) **	5.96	± 0.08	(10) **	5.48	± 0.08	(10) **	4.31	± 0.12	(10) **	3.10 (1)
Percent of Control					90.85			83.54			65.70			47.26
Globulin (g/dL)	SD 28	2.21	± 0.03	(10) **	1.53	± 0.04	(10) **	1.36	± 0.05	(10) **	1.07	± 0.04	(10) **	1.00 (1)
Percent of Control					69.23			61.54			48.42			45.25
A/G Ratio	SD 28	1.97	± 0.04	(10) **	2.91	± 0.06	(10) **	3.06	± 0.10	(10) **	3.05	± 0.10	(10) **	2.10 (1)
Percent of Control					147.31			154.91			154.70			106.45
Albumin (g/dL)	SD 28	4.35	± 0.04	(10) **	4.43	± 0.05	(10)	4.12	± 0.05	(10) **	3.24	± 0.09	(10) **	2.10 (1)
Percent of Control					101.84			94.71			74.48			48.28
Total Bilirubin (mg/dL)	SD 28	0.157	± 0.009	(10) **	0.145	± 0.008	(10)	0.197	± 0.010	(10) *	0.720	± 0.080	(10) **	2.088 ± 0.221 (2) **
Percent of Control					91.804			125.222			457.116			1326.557
Direct Bilirubin (mg/dL)	SD 28	0.025	± 0.002	(10) **	0.030	± 0.001	(10)	0.047	± 0.003	(10) **	0.322	± 0.043	(10) **	1.419 ± 0.228 (2) **
Percent of Control					120.319			186.853			1281.673			5651.394
Indirect Bilirubin (mg/dL)	SD 28	0.132	± 0.009	(10) **	0.114	± 0.009	(10)	0.150	± 0.009	(10)	0.398	± 0.040	(10) **	0.670 ± 0.007 (2) **
Percent of Control					86.395			113.530			300.680			506.047
Cholesterol (mg/dL)	SD 28	117.4	± 4.8	(10)	86.2	± 2.3	(10) **	90.9	± 3.6	(10) **	108.3	± 8.7	(10)	74.0 (1)
Percent of Control					73.4			77.4			92.2			63.0

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		0			0.625			1.25			2.5			5	
Triglyceride (mg/dL)	SD 28	120.1	± 9.4	(10) **	58.7	± 8.8	(10) **	81.1	± 5.6	(10) **	59.1	± 3.6	(10) **	52.0	(1)
Percent of Control						48.9			67.5			49.2		43.3	
Alanine Aminotransferase (IU/L)	SD 28	57.67	± 1.45	(9)	74.60	± 4.81	(10)	86.30	± 4.21	(10) **	58.70	± 4.32	(10)	104.00	(1)
Percent of Control						129.36			149.65			101.79		180.35	
Alkaline Phosphatase (IU/L)	SD 28	207.3	± 4.5	(10)	247.3	± 14.8	(10)	397.3	± 25.2	(10) **	204.4	± 31.1	(10)	350.0	(1)
Percent of Control						119.3			191.7			98.6		168.8	
Aspartate Aminotransferase (U/L)	SD 28	85.10	± 22.51	(10) **	73.60	± 3.30	(10)	95.80	± 2.62	(10) **	118.50	± 10.62	(10) **	255.50	± 91.50 (2) **
Percent of Control						86.49			112.57			139.25		300.24	
Creatine Kinase (IU/L)	SD 28	107.1	± 5.5	(10) *	117.5	± 5.5	(10)	130.9	± 9.7	(10)	159.2	± 23.3	(10)	101.0	(1)
Percent of Control						109.7			122.2			148.6		94.3	
Sorbitol Dehydrogenase (IU/L)	SD 28	9.2	± 1.1	(9) **	11.5	± 1.4	(10)	13.3	± 1.0	(10) *	13.4	± 1.2	(10) *	8.0	(1)
Percent of Control						124.7			144.2			145.3		86.7	
Bile salt/acids (umol/L)	SD 28	13.1	± 2.4	(10) **	27.6	± 3.1	(10) **	71.0	± 7.8	(10) **	221.9	± 16.1	(10) **	84.0	(1)
Percent of Control						210.7			542.0			1693.9		641.2	

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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.

Decrease in N for Alanine Aminotransferase, Aspartate Aminotransferase, and Sorbitol Dehydrogenase in the 0 mg/kg dose group is due to one male's values being excluded because they were outliers.

**** END OF REPORT ****