

Experiment Number: C06100

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

C Number:

C06100

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: Perfluorohexane sulfonate potassium salt

CAS Number: 3871-99-6

Date Report Requested: 04/04/2018

Time Report Requested: 14:04:00

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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	24.2	± 1.1	(10)	22.7	± 0.9	(10)	20.9	± 0.6	(10)	25.6	± 1.1	(10)	24.7	± 1.3	(10)				
Percent of Control					93.8			86.4			105.8			102.1						
Creatinine (mg/dL)	SD 28	0.72	± 0.01	(10)	0.75	± 0.02	(10)	0.74	± 0.02	(10)	0.75	± 0.02	(10)	0.75	± 0.02	(10)				
Percent of Control					104.17			102.78			104.17			104.17						
Glucose (mg/dL)	SD 28	274.1	± 18.3	(10)	252.0	± 18.4	(10)	241.9	± 20.9	(10)	272.4	± 8.4	(10)	264.7	± 13.6	(10)				
Percent of Control					91.9			88.3			99.4			96.6						
Total Protein (g/dL)	SD 28	6.36	± 0.06	(10)	6.23	± 0.04	(10)	6.33	± 0.07	(10)	6.24	± 0.07	(10)	6.37	± 0.07	(10)				
Percent of Control					97.96			99.53			98.11			100.16						
Globulin (g/dL)	SD 28	2.19	± 0.02	(10) **	2.19	± 0.03	(10)	2.26	± 0.07	(10)	2.13	± 0.04	(10)	2.14	± 0.04	(10)				
Percent of Control					100.00			103.20			97.26			97.72						
A/G Ratio	SD 28	1.91	± 0.03	(10) **	1.85	± 0.03	(10)	1.81	± 0.06	(10)	1.94	± 0.05	(10)	1.98	± 0.04	(10)				
Percent of Control					97.03			95.23			101.68			104.02						
Albumin (g/dL)	SD 28	4.17	± 0.05	(10) **	4.04	± 0.03	(10)	4.07	± 0.03	(10)	4.11	± 0.06	(10)	4.23	± 0.05	(10)				
Percent of Control					96.88			97.60			98.56			101.44						
Total Bilirubin (mg/dL)	SD 28	0.178	± 0.009	(10) **	0.169	± 0.017	(10)	0.178	± 0.012	(10)	0.141	± 0.009	(10) *	0.142	± 0.008	(10) *				
Percent of Control					94.994			100.225			79.078			79.640						
Direct Bilirubin (mg/dL)	SD 28	0.023	± 0.003	(10)	0.024	± 0.002	(10)	0.024	± 0.002	(10)	0.022	± 0.002	(10)	0.020	± 0.001	(10)				
Percent of Control					105.609			106.047			97.283			89.395						
Indirect Bilirubin (mg/dL)	SD 28	0.155	± 0.010	(10) *	0.145	± 0.017	(10)	0.154	± 0.012	(10)	0.118	± 0.010	(10)	0.121	± 0.008	(10)				
Percent of Control					93.431			99.368			76.397			78.204						
Cholesterol (mg/dL)	SD 28	109.4	± 4.4	(10) **	101.2	± 3.1	(10)	95.8	± 3.2	(10) *	92.1	± 2.7	(10) **	86.9	± 5.4	(10) **				
Percent of Control					92.5			87.6			84.2			79.4						

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	Phase Day	Treatment Groups (mg/kg/day)																	
		0				0.625				1.25				2.5				5	
Triglyceride (mg/dL)	SD 28	138.1	± 6.3	(10) **	124.1	± 7.2	(10)	135.8	± 13.2	(10)	107.3	± 13.6	(10) *	89.4	± 7.8	(10) **			
Percent of Control					89.9			98.3			77.7			64.7					
Alanine Aminotransferase (IU/L)	SD 28	61.50	± 3.64	(10)	54.20	± 1.79	(10)	54.70	± 2.83	(10)	55.50	± 1.92	(10)	53.20	± 2.21	(10)			
Percent of Control					88.13			88.94			90.24			86.50					
Alkaline Phosphatase (IU/L)	SD 28	211.2	± 10.5	(10)	193.9	± 6.8	(10)	201.2	± 11.1	(10)	224.2	± 10.7	(10)	215.5	± 9.7	(10)			
Percent of Control					91.8			95.3			106.2			102.0					
Aspartate Aminotransferase (U/L)	SD 28	65.30	± 3.44	(10)	64.60	± 2.64	(10)	67.90	± 2.96	(10)	63.20	± 1.65	(10)	66.60	± 2.32	(10)			
Percent of Control					98.93			103.98			96.78			101.99					
Creatine Kinase (IU/L)	SD 28	122.7	± 9.5	(10)	111.2	± 4.9	(10)	108.5	± 5.2	(10)	104.0	± 8.0	(10)	107.2	± 4.5	(10)			
Percent of Control					90.6			88.4			84.8			87.4					
Sorbitol Dehydrogenase (IU/L)	SD 28	9.7	± 1.5	(10) *	9.8	± 0.6	(10)	10.1	± 0.7	(10)	9.8	± 0.8	(10)	10.8	± 1.3	(10)			
Percent of Control					101.0			104.1			101.0			111.3					
Bile salt/acids (umol/L)	SD 28	15.9	± 1.9	(10)	19.4	± 2.4	(10)	12.8	± 2.4	(10)	16.4	± 2.0	(10)	21.8	± 2.5	(10)			
Percent of Control					122.0			80.5			103.1			137.1					

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	Phase Day	Treatment Groups	
		10	
Urea Nitrogen (mg/dL)	SD 28	25.8 ± 0.9	(10)
Percent of Control		106.6	
Creatinine (mg/dL)	SD 28	0.73 ± 0.02	(10)
Percent of Control		101.39	
Glucose (mg/dL)	SD 28	254.5 ± 15.6	(10)
Percent of Control		92.8	
Total Protein (g/dL)	SD 28	6.26 ± 0.12	(10)
Percent of Control		98.43	
Globulin (g/dL)	SD 28	1.89 ± 0.06	(10) **
Percent of Control		86.30	
A/G Ratio	SD 28	2.33 ± 0.06	(10) **
Percent of Control		122.18	
Albumin (g/dL)	SD 28	4.37 ± 0.06	(10)
Percent of Control		104.80	
Total Bilirubin (mg/dL)	SD 28	0.156 ± 0.017	(10) *
Percent of Control		87.908	
Direct Bilirubin (mg/dL)	SD 28	0.024 ± 0.001	(10)
Percent of Control		103.856	
Indirect Bilirubin (mg/dL)	SD 28	0.133 ± 0.016	(10)
Percent of Control		85.559	
Cholesterol (mg/dL)	SD 28	72.9 ± 3.1	(10) **
Percent of Control		66.6	

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		Treatment Groups		
	Phase Day	10		
Triglyceride (mg/dL)	SD 28	86.9	± 10.9	(10) **
Percent of Control			62.9	
Alanine Aminotransferase (IU/L)	SD 28	62.60	± 3.10	(10)
Percent of Control			101.79	
Alkaline Phosphatase (IU/L)	SD 28	212.7	± 8.1	(10)
Percent of Control			100.7	
Aspartate Aminotransferase (U/L)	SD 28	68.50	± 3.67	(10)
Percent of Control			104.90	
Creatine Kinase (IU/L)	SD 28	112.5	± 7.3	(10)
Percent of Control			91.7	
Sorbitol Dehydrogenase (IU/L)	SD 28	12.9	± 1.3	(10)
Percent of Control			133.0	
Bile salt/acids (umol/L)	SD 28	21.8	± 2.9	(10)
Percent of Control			137.1	

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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 ****