

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

PA43: Hematology Summary

Test Compound: Perfluorononanoic Acid

CAS Number: 375-95-1

Date Report Requested: 12/14/2016

Time Report Requested: 15:26:11

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Treatment Groups

	Phase Day	0 mg/kg/day	0.625 mg/kg/day	1.25 mg/kg/day	2.5 mg/kg/day
Hematocrit (%)	SD 28	52.1 ± 0.5 (10) *	52.6 ± 0.4 (10)	53.9 ± 0.9 (10)	56.1 ± 0.8 (10) **
Percent of Control			101	103	108
Manual Hematocrit (%)	SD 28	48 ± 1 (10)	48 ± 0 (10)	49 ± 1 (10)	51 ± 1 (10)
Percent of Control			100	103	106
Hemoglobin (g/dL)	SD 28	15.7 ± 0.1 (10) **	15.8 ± 0.1 (10)	16.2 ± 0.3 (10)	17.3 ± 0.3 (10)
Percent of Control			101	104	110
Red Blood Cells (M/uL)	SD 28	8.66 ± 0.09 (10) **	8.71 ± 0.10 (10)	9.04 ± 0.16 (10)	9.88 ± 0.19 (10)
Percent of Control			101	104	114
Reticulocytes (K/uL)	SD 28	168.3 ± 6.5 (10) **	135.5 ± 8.1 (10) *	85.3 ± 6.7 (10) **	8.2 ± 1.7 (10) **
Percent of Control			80	51	5
Mean Cell Volume (fL)	SD 28	60.2 ± 0.4 (10) **	60.5 ± 0.6 (10)	59.7 ± 0.3 (10)	56.9 ± 0.4 (10) **
Percent of Control			100	99	94
Mean Cell Hemoglobin (pg)	SD 28	18.1 ± 0.1 (10) **	18.2 ± 0.2 (10)	18.0 ± 0.1 (10)	17.5 ± 0.1 (10) **
Percent of Control			101	100	97
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	30.0 ± 0.1 (10) **	30.1 ± 0.1 (10)	30.1 ± 0.1 (10)	30.7 ± 0.1 (10) **
Percent of Control			100	100	102
Platelets (K/uL)	SD 28	894 ± 35 (10)	833 ± 23 (10)	874 ± 28 (10)	832 ± 55 (10)
Percent of Control			93	98	93
White Blood Cells (K/uL)	SD 28	10.92 ± 0.36 (10) **	11.01 ± 0.76 (10)	9.74 ± 0.57 (10)	5.66 ± 0.74 (10) **
Percent of Control			101	89	52
Neutrophils (K/uL)	SD 28	1.40 ± 0.19 (10) *	1.10 ± 0.09 (10)	0.88 ± 0.11 (10) *	1.13 ± 0.19 (10)
Percent of Control			79	63	81

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	Phase Day	0 mg/kg/day	0.625 mg/kg/day	1.25 mg/kg/day	2.5 mg/kg/day
Lymphocytes (K/uL)	SD 28	9.17 ± 0.29 (10) **	9.53 ± 0.70 (10)	8.53 ± 0.52 (10)	4.22 ± 0.62 (10) **
Percent of Control			104	93	46
Total Lymphocytes (K/uL)	SD 28	9.22 ± 0.29 (10) **	9.60 ± 0.70 (10)	8.59 ± 0.52 (10)	4.24 ± 0.62 (10) **
Percent of Control			104	93	46
Monocytes (K/uL)	SD 28	0.19 ± 0.02 (10)	0.17 ± 0.02 (10)	0.18 ± 0.02 (10)	0.23 ± 0.06 (10)
Percent of Control			91	97	123
Basophils (K/uL)	SD 28	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control			92	92	67
Eosinophils (K/uL)	SD 28	0.10 ± 0.01 (10) **	0.12 ± 0.02 (10)	0.08 ± 0.01 (10)	0.05 ± 0.01 (10) *
Percent of Control			129	81	52

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	Phase Day	5 mg/kg/day
Hematocrit (%)	SD 28	41.6 ± 2.0 (2)
Percent of Control		80
Manual Hematocrit (%)	SD 28	38 ± 3 (2)
Percent of Control		78
Hemoglobin (g/dL)	SD 28	13.3 ± 0.5 (2)
Percent of Control		85
Red Blood Cells (M/uL)	SD 28	7.66 ± 0.30 (2)
Percent of Control		88
Reticulocytes (K/uL)	SD 28	4.8 ± 0.8 (2) **
Percent of Control		3
Mean Cell Volume (fL)	SD 28	54.3 ± 0.5 (2) **
Percent of Control		90
Mean Cell Hemoglobin (pg)	SD 28	17.4 ± 0.1 (2) *
Percent of Control		96
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	32.0 ± 0.3 (2) **
Percent of Control		107
Platelets (K/uL)	SD 28	466 ± 36 (2)
Percent of Control		52
White Blood Cells (K/uL)	SD 28	3.77 ± 0.02 (2) **
Percent of Control		35
Neutrophils (K/uL)	SD 28	1.00 ± 0.12 (2)
Percent of Control		72

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	Phase Day	5 mg/kg/day
Lymphocytes (K/uL)	SD 28	2.51 ± 0.13 (2) **
Percent of Control		27
Total Lymphocytes (K/uL)	SD 28	2.54 ± 0.14 (2) **
Percent of Control		27
Monocytes (K/uL)	SD 28	0.22 ± 0.01 (2)
Percent of Control		114
Basophils (K/uL)	SD 28	0.01 ± 0.00 (2)
Percent of Control		83
Eosinophils (K/uL)	SD 28	0.01 ± 0.00 (2) *
Percent of Control		11

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LEGEND

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

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

Hematology for gestation phase includes pregnant females only

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests

Statistical significance for the control group indicates a significant trend test

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

**** END OF REPORT ****