

Experiment Number: C91070B

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

C Number:

C91070B

Cage Range:

All

Date Range:

All

Reasons For Removal:

All

Removal Date Range:

All

Treatment Groups:

All

Study Gender:

Female

PA43: Hematology Summary

Test Compound: Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 12/14/2016

Time Report Requested: 15:23:06

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Treatment Groups

	Phase Day	0 mg/kg/day	6.25 mg/kg/day	12.5 mg/kg/day	25 mg/kg/day
Hematocrit (%)	SD 28	47.2 ± 0.5 (10) **	45.8 ± 0.3 (10) *	45.7 ± 0.3 (10) *	45.4 ± 0.4 (10) **
Percent of Control			97	97	96
Manual Hematocrit (%)	SD 28	42 ± 1 (10) *	42 ± 1 (10)	41 ± 0 (10)	41 ± 1 (10)
Percent of Control			99	97	97
Hemoglobin (g/dL)	SD 28	14.4 ± 0.1 (10) **	14.0 ± 0.1 (10)	14.0 ± 0.1 (10) *	13.9 ± 0.1 (10) **
Percent of Control			98	97	97
Red Blood Cells (M/uL)	SD 28	7.78 ± 0.08 (10) **	7.63 ± 0.10 (10)	7.67 ± 0.07 (10)	7.53 ± 0.07 (10)
Percent of Control			98	99	97
Reticulocytes (K/uL)	SD 28	204.6 ± 13.7 (10) *	217.2 ± 8.4 (10)	202.5 ± 14.0 (10)	214.1 ± 16.1 (10)
Percent of Control			106	99	105
Mean Cell Volume (fL)	SD 28	60.7 ± 0.4 (10)	60.1 ± 0.6 (10)	59.6 ± 0.3 (10)	60.3 ± 0.4 (10)
Percent of Control			99	98	99
Mean Cell Hemoglobin (pg)	SD 28	18.5 ± 0.1 (10)	18.4 ± 0.2 (10)	18.2 ± 0.1 (10)	18.4 ± 0.1 (10)
Percent of Control			100	99	100
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	30.4 ± 0.1 (10)	30.7 ± 0.1 (10)	30.5 ± 0.2 (10)	30.6 ± 0.1 (10)
Percent of Control			101	100	100
Platelets (K/uL)	SD 28	1030 ± 20 (10)	1009 ± 31 (10)	1034 ± 57 (10)	990 ± 23 (10)
Percent of Control			98	100	96
White Blood Cells (K/uL)	SD 28	9.22 ± 0.57 (10)	9.41 ± 0.39 (10)	8.33 ± 0.33 (10)	8.81 ± 0.62 (10)
Percent of Control			102	90	95
Neutrophils (K/uL)	SD 28	0.88 ± 0.08 (10)	0.79 ± 0.08 (10)	0.72 ± 0.05 (10)	0.83 ± 0.07 (10)
Percent of Control			89	82	95

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	Phase Day	0 mg/kg/day	6.25 mg/kg/day	12.5 mg/kg/day	25 mg/kg/day
Lymphocytes (K/uL)	SD 28	8.06 ± 0.52 (10)	8.33 ± 0.35 (10)	7.33 ± 0.31 (10)	7.71 ± 0.56 (10)
Percent of Control			103	91	96
Total Lymphocytes (K/uL)	SD 28	8.11 ± 0.52 (10)	8.39 ± 0.35 (10)	7.38 ± 0.31 (10)	7.76 ± 0.57 (10)
Percent of Control			103	91	96
Monocytes (K/uL)	SD 28	0.13 ± 0.02 (10)	0.15 ± 0.02 (10)	0.13 ± 0.01 (10)	0.13 ± 0.02 (10)
Percent of Control			117	102	98
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			114	86	71
Eosinophils (K/uL)	SD 28	0.10 ± 0.01 (10)	0.08 ± 0.01 (10)	0.09 ± 0.01 (10)	0.08 ± 0.01 (10)
Percent of Control			82	93	78

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	Phase Day	Treatment Groups	
		50 mg/kg/day	100 mg/kg/day
Hematocrit (%)	SD 28	45.8 ± 0.5 (10) *	43.2 ± 0.6 (9) **
Percent of Control		97	92
Manual Hematocrit (%)	SD 28	42 ± 1 (10)	40 ± 1 (9) *
Percent of Control		99	94
Hemoglobin (g/dL)	SD 28	13.9 ± 0.1 (10) **	13.1 ± 0.2 (9) **
Percent of Control		97	92
Red Blood Cells (M/uL)	SD 28	7.63 ± 0.10 (10)	7.20 ± 0.11 (9) **
Percent of Control		98	93
Reticulocytes (K/uL)	SD 28	211.0 ± 17.7 (10)	272.1 ± 22.0 (9)
Percent of Control		103	133
Mean Cell Volume (fL)	SD 28	60.1 ± 0.6 (10)	60.1 ± 0.5 (9)
Percent of Control		99	99
Mean Cell Hemoglobin (pg)	SD 28	18.3 ± 0.2 (10)	18.3 ± 0.2 (9)
Percent of Control		99	99
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	30.4 ± 0.1 (10)	30.4 ± 0.2 (9)
Percent of Control		100	100
Platelets (K/uL)	SD 28	1019 ± 36 (10)	953 ± 47 (9)
Percent of Control		99	93
White Blood Cells (K/uL)	SD 28	7.71 ± 0.43 (10)	9.88 ± 0.73 (9)
Percent of Control		84	107
Neutrophils (K/uL)	SD 28	0.86 ± 0.12 (10)	1.01 ± 0.10 (9)
Percent of Control		97	115

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	Phase Day	Treatment Groups	
		50 mg/kg/day	100 mg/kg/day
Lymphocytes (K/uL)	SD 28	6.59 ± 0.41 (10)	8.54 ± 0.67 (9)
Percent of Control		82	106
Total Lymphocytes (K/uL)	SD 28	6.63 ± 0.41 (10)	8.59 ± 0.67 (9)
Percent of Control		82	106
Monocytes (K/uL)	SD 28	0.14 ± 0.02 (10)	0.18 ± 0.02 (9)
Percent of Control		106	136
Basophils (K/uL)	SD 28	0.01 ± 0.00 (10)	0.01 ± 0.00 (9)
Percent of Control		129	159
Eosinophils (K/uL)	SD 28	0.08 ± 0.01 (10)	0.09 ± 0.01 (9)
Percent of Control		79	91

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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 ****