

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:

Male

PA43: Hematology Summary

Test Compound: Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 12/14/2016

Time Report Requested: 15:23:19

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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	53.3 ± 0.6 (10) **	52.1 ± 0.6 (10)	50.5 ± 0.5 (10) **	50.9 ± 0.5 (10) **
Percent of Control			98	95	95
Manual Hematocrit (%)	SD 28	48 ± 1 (10) **	47 ± 1 (10)	46 ± 0 (10) *	46 ± 0 (10) *
Percent of Control			98	96	96
Hemoglobin (g/dL)	SD 28	16.0 ± 0.1 (10) **	15.6 ± 0.1 (10)	15.2 ± 0.2 (10) **	15.3 ± 0.1 (10) **
Percent of Control			97	95	95
Red Blood Cells (M/uL)	SD 28	8.80 ± 0.13 (10) **	8.50 ± 0.10 (10)	8.27 ± 0.09 (10) **	8.51 ± 0.12 (10) *
Percent of Control			97	94	97
Reticulocytes (K/uL)	SD 28	188.8 ± 8.2 (10) **	161.6 ± 2.9 (10) **	148.7 ± 6.8 (10) **	144.5 ± 7.3 (10) **
Percent of Control			86	79	77
Mean Cell Volume (fL)	SD 28	60.6 ± 0.5 (10) **	61.3 ± 0.3 (10)	61.2 ± 0.4 (10)	59.9 ± 0.5 (10)
Percent of Control			101	101	99
Mean Cell Hemoglobin (pg)	SD 28	18.2 ± 0.1 (10) **	18.4 ± 0.1 (10)	18.4 ± 0.2 (10)	18.0 ± 0.2 (10)
Percent of Control			101	101	99
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	30.1 ± 0.1 (10)	30.0 ± 0.1 (10)	30.1 ± 0.1 (10)	30.0 ± 0.2 (10)
Percent of Control			100	100	100
Platelets (K/uL)	SD 28	1000 ± 30 (10)	864 ± 25 (10) *	848 ± 16 (10) **	923 ± 26 (10)
Percent of Control			86	85	92
White Blood Cells (K/uL)	SD 28	11.81 ± 0.41 (10)	10.72 ± 0.89 (10)	12.27 ± 0.46 (10)	10.88 ± 1.12 (10)
Percent of Control			91	104	92
Neutrophils (K/uL)	SD 28	1.23 ± 0.10 (10)	1.05 ± 0.11 (10)	1.24 ± 0.06 (10)	1.32 ± 0.15 (10)
Percent of Control			85	101	107

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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	10.18 ± 0.34 (10)	9.32 ± 0.78 (10)	10.69 ± 0.46 (10)	9.19 ± 0.97 (10)
Percent of Control			92	105	90
Total Lymphocytes (K/uL)	SD 28	10.26 ± 0.34 (10)	9.39 ± 0.78 (10)	10.75 ± 0.46 (10)	9.26 ± 0.98 (10)
Percent of Control			92	105	90
Monocytes (K/uL)	SD 28	0.22 ± 0.03 (10)	0.20 ± 0.02 (10)	0.20 ± 0.02 (10)	0.18 ± 0.02 (10)
Percent of Control			88	88	80
Basophils (K/uL)	SD 28	0.01 ± 0.00 (10)	0.02 ± 0.00 (10)	0.02 ± 0.00 (10)	0.02 ± 0.00 (10)
Percent of Control			115	115	131
Eosinophils (K/uL)	SD 28	0.09 ± 0.02 (10)	0.06 ± 0.01 (10)	0.07 ± 0.01 (10)	0.10 ± 0.03 (10)
Percent of Control			71	85	118

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Treatment Groups

	Phase Day	5 mg/kg/day	10 mg/kg/day
Hematocrit (%)	SD 28	49.3 ± 0.6 (10) **	48.3 ± 0.5 (10) **
Percent of Control		93	90
Manual Hematocrit (%)	SD 28	45 ± 1 (10) **	44 ± 0 (10) **
Percent of Control		94	92
Hemoglobin (g/dL)	SD 28	14.9 ± 0.2 (10) **	14.5 ± 0.1 (10) **
Percent of Control		93	90
Red Blood Cells (M/uL)	SD 28	8.28 ± 0.13 (10) *	8.28 ± 0.08 (10) **
Percent of Control		94	94
Reticulocytes (K/uL)	SD 28	161.6 ± 11.1 (10) **	131.0 ± 10.9 (10) **
Percent of Control		86	69
Mean Cell Volume (fL)	SD 28	59.6 ± 0.4 (10)	58.3 ± 0.6 (10) **
Percent of Control		98	96
Mean Cell Hemoglobin (pg)	SD 28	18.0 ± 0.1 (10)	17.5 ± 0.2 (10) *
Percent of Control		99	96
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	30.2 ± 0.1 (10)	30.1 ± 0.1 (10)
Percent of Control		100	100
Platelets (K/uL)	SD 28	913 ± 20 (10)	989 ± 41 (10)
Percent of Control		91	99
White Blood Cells (K/uL)	SD 28	11.84 ± 0.55 (10)	9.77 ± 0.64 (10)
Percent of Control		100	83
Neutrophils (K/uL)	SD 28	1.15 ± 0.08 (10)	1.04 ± 0.08 (10)
Percent of Control		94	84

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		Treatment Groups	
	Phase Day	5 mg/kg/day	10 mg/kg/day
Lymphocytes (K/uL)	SD 28	10.33 ± 0.48 (10)	8.41 ± 0.59 (10)
Percent of Control		101	83
Total Lymphocytes (K/uL)	SD 28	10.40 ± 0.48 (10)	8.46 ± 0.59 (10)
Percent of Control		101	82
Monocytes (K/uL)	SD 28	0.21 ± 0.02 (10)	0.22 ± 0.03 (10)
Percent of Control		94	97
Basophils (K/uL)	SD 28	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control		100	69
Eosinophils (K/uL)	SD 28	0.06 ± 0.01 (10)	0.05 ± 0.01 (10)
Percent of Control		72	58

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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 ****