

**Experiment Number:** C20613  
**Test Type:** TOX  
**Route:** Oral Gavage  
**Species/Strain:** Rat/Harlan Sprague Dawley

**PA43: Hematology Summary**  
**Test Compound:** Perfluorohexanoic acid  
**CAS Number:** 307-24-4

**Date Report Requested:** 12/14/2016  
**Time Report Requested:** 15:02:00  
**Lab:** Battelle

<b>C Number:</b>	C20613
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both

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Male

Treatment Groups

	Phase Day	0 mg/kg/day	62.6 mg/kg/day	125 mg/kg/day	250 mg/kg/day
Hematocrit (%)	SD 28	51.9 ± 0.5 (10) **	49.6 ± 0.7 (10) *	48.6 ± 0.7 (9) **	48.7 ± 0.6 (10) **
Percent of Control			96	94	94
Manual Hematocrit (%)	SD 28	47 ± 0 (10) **	45 ± 1 (10)	44 ± 1 (9) *	44 ± 0 (10) **
Percent of Control			96	94	94
Hemoglobin (g/dL)	SD 28	15.5 ± 0.2 (10) **	15.0 ± 0.2 (10) *	14.7 ± 0.2 (9) **	14.6 ± 0.2 (10) **
Percent of Control			96	95	94
Red Blood Cells (M/uL)	SD 28	8.69 ± 0.08 (10) **	8.28 ± 0.11 (10) *	8.24 ± 0.12 (9) **	7.91 ± 0.10 (10) **
Percent of Control			95	95	91
Reticulocytes (K/uL)	SD 28	207.9 ± 6.0 (10) **	196.5 ± 8.7 (10)	176.3 ± 7.6 (9)	238.6 ± 9.6 (10)
Percent of Control			95	85	115
Mean Cell Volume (fL)	SD 28	59.7 ± 0.4 (10) **	59.9 ± 0.4 (10)	59.0 ± 0.7 (9)	61.6 ± 0.5 (10) *
Percent of Control			100	99	103
Mean Cell Hemoglobin (pg)	SD 28	17.9 ± 0.1 (10) **	18.1 ± 0.1 (10)	17.8 ± 0.2 (9)	18.5 ± 0.2 (10) *
Percent of Control			101	100	103
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	29.9 ± 0.1 (10) **	30.2 ± 0.1 (10)	30.2 ± 0.1 (9)	30.0 ± 0.1 (10)
Percent of Control			101	101	100
Platelets (K/uL)	SD 28	927 ± 26 (10) **	913 ± 28 (10)	979 ± 40 (9)	939 ± 36 (10)
Percent of Control			99	106	101
White Blood Cells (K/uL)	SD 28	11.48 ± 0.75 (10)	10.82 ± 0.38 (10)	10.46 ± 0.49 (9)	10.60 ± 0.68 (10)
Percent of Control			94	91	92
Neutrophils (K/uL)	SD 28	1.81 ± 0.59 (10)	1.04 ± 0.06 (10)	1.03 ± 0.07 (9)	1.03 ± 0.09 (10)
Percent of Control			57	57	57

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Treatment Groups

	Phase Day	0 mg/kg/day	62.6 mg/kg/day	125 mg/kg/day	250 mg/kg/day
Lymphocytes (K/uL)	SD 28	9.25 ± 0.46 (10)	9.45 ± 0.34 (10)	9.12 ± 0.46 (9)	9.27 ± 0.62 (10)
Percent of Control			102	99	100
Total Lymphocytes (K/uL)	SD 28	9.32 ± 0.46 (10)	9.50 ± 0.34 (10)	9.18 ± 0.47 (9)	9.31 ± 0.63 (10)
Percent of Control			102	98	100
Monocytes (K/uL)	SD 28	0.23 ± 0.03 (10)	0.19 ± 0.02 (10)	0.16 ± 0.01 (9)	0.18 ± 0.03 (10)
Percent of Control			80	67	76
Basophils (K/uL)	SD 28	0.02 ± 0.00 (10) **	0.01 ± 0.00 (10)	0.01 ± 0.00 (9)	0.01 ± 0.00 (10) *
Percent of Control			69	83	56
Eosinophils (K/uL)	SD 28	0.09 ± 0.02 (10)	0.07 ± 0.01 (10)	0.08 ± 0.01 (9)	0.06 ± 0.01 (10)
Percent of Control			77	86	61

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Treatment Groups

	Phase Day	500 mg/kg/day	1000 mg/kg/day
Hematocrit (%)	SD 28	43.3 ± 0.9 (10) **	34.2 ± 1.8 (10) **
Percent of Control		84	66
Manual Hematocrit (%)	SD 28	39 ± 1 (10) **	33 ± 2 (10) **
Percent of Control		83	70
Hemoglobin (g/dL)	SD 28	12.6 ± 0.3 (10) **	9.3 ± 0.6 (10) **
Percent of Control		81	60
Red Blood Cells (M/uL)	SD 28	6.68 ± 0.22 (10) **	4.56 ± 0.32 (10) **
Percent of Control		77	52
Reticulocytes (K/uL)	SD 28	523.7 ± 71.7 (10) **	947.7 ± 43.0 (10) **
Percent of Control		252	456
Mean Cell Volume (fL)	SD 28	65.2 ± 1.1 (10) **	75.8 ± 1.9 (10) **
Percent of Control		109	127
Mean Cell Hemoglobin (pg)	SD 28	19.0 ± 0.2 (10) **	20.4 ± 0.4 (10) **
Percent of Control		106	114
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	29.1 ± 0.3 (10)	27.0 ± 0.3 (10) **
Percent of Control		97	90
Platelets (K/uL)	SD 28	1115 ± 44 (10) **	1381 ± 69 (10) **
Percent of Control		120	149
White Blood Cells (K/uL)	SD 28	9.89 ± 0.60 (10)	11.43 ± 0.63 (10)
Percent of Control		86	100
Neutrophils (K/uL)	SD 28	1.07 ± 0.11 (10)	2.56 ± 0.32 (10)
Percent of Control		59	141

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Treatment Groups

	Phase Day	500 mg/kg/day	1000 mg/kg/day
Lymphocytes (K/uL)	SD 28	8.52 ± 0.48 (10)	8.39 ± 0.38 (10)
Percent of Control		92	91
Total Lymphocytes (K/uL)	SD 28	8.58 ± 0.48 (10)	8.46 ± 0.39 (10)
Percent of Control		92	91
Monocytes (K/uL)	SD 28	0.17 ± 0.02 (10)	0.32 ± 0.02 (10)
Percent of Control		73	136
Basophils (K/uL)	SD 28	0.01 ± 0.00 (10) *	0.01 ± 0.00 (10) **
Percent of Control		56	44
Eosinophils (K/uL)	SD 28	0.06 ± 0.01 (10)	0.09 ± 0.01 (10)
Percent of Control		64	93

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	Phase Day	Treatment Groups			
		0 mg/kg/day	62.6 mg/kg/day	125 mg/kg/day	250 mg/kg/day
Hematocrit (%)	SD 28	45.1 ± 0.5 (10) **	44.8 ± 0.3 (10)	45.1 ± 0.4 (10)	42.1 ± 0.3 (10) **
Percent of Control			99	100	93
Manual Hematocrit (%)	SD 28	41 ± 1 (10) **	41 ± 1 (10)	41 ± 0 (10)	38 ± 0 (10) **
Percent of Control			99	99	93
Hemoglobin (g/dL)	SD 28	14.0 ± 0.2 (10) **	14.0 ± 0.1 (10)	13.9 ± 0.1 (10)	13.1 ± 0.1 (10) **
Percent of Control			100	99	93
Red Blood Cells (M/uL)	SD 28	7.66 ± 0.09 (10) **	7.61 ± 0.07 (10)	7.78 ± 0.11 (10)	7.10 ± 0.09 (10) **
Percent of Control			99	102	93
Reticulocytes (K/uL)	SD 28	177.9 ± 17.2 (10) **	177.9 ± 11.5 (10)	173.7 ± 14.5 (10)	213.3 ± 17.5 (10)
Percent of Control			100	98	120
Mean Cell Volume (fL)	SD 28	58.8 ± 0.2 (10) **	58.8 ± 0.5 (10)	57.9 ± 0.6 (10)	59.4 ± 0.6 (10)
Percent of Control			100	99	101
Mean Cell Hemoglobin (pg)	SD 28	18.3 ± 0.1 (10) **	18.4 ± 0.2 (10)	17.9 ± 0.2 (10)	18.5 ± 0.2 (10)
Percent of Control			100	98	101
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	31.2 ± 0.1 (10) **	31.2 ± 0.1 (10)	30.9 ± 0.1 (10)	31.1 ± 0.1 (10)
Percent of Control			100	99	100
Platelets (K/uL)	SD 28	976 ± 20 (10) *	998 ± 39 (10)	1049 ± 28 (10)	985 ± 21 (10)
Percent of Control			102	108	101
White Blood Cells (K/uL)	SD 28	8.15 ± 0.39 (10)	8.34 ± 0.44 (10)	8.08 ± 0.59 (10)	8.22 ± 0.58 (10)
Percent of Control			102	99	101
Neutrophils (K/uL)	SD 28	0.83 ± 0.08 (10) **	0.86 ± 0.09 (10)	0.82 ± 0.11 (10)	0.87 ± 0.08 (10)
Percent of Control			103	99	105

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Treatment Groups

	Phase Day	0 mg/kg/day	62.6 mg/kg/day	125 mg/kg/day	250 mg/kg/day
Lymphocytes (K/uL)	SD 28	7.05 ± 0.36 (10)	7.20 ± 0.38 (10)	7.00 ± 0.51 (10)	7.08 ± 0.51 (10)
Percent of Control			102	99	100
Total Lymphocytes (K/uL)	SD 28	7.10 ± 0.37 (10)	7.26 ± 0.38 (10)	7.05 ± 0.51 (10)	7.13 ± 0.51 (10)
Percent of Control			102	99	101
Monocytes (K/uL)	SD 28	0.13 ± 0.01 (10)	0.14 ± 0.02 (10)	0.13 ± 0.02 (10)	0.14 ± 0.02 (10)
Percent of Control			107	98	108
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			100	140	120
Eosinophils (K/uL)	SD 28	0.09 ± 0.01 (10)	0.08 ± 0.01 (10)	0.08 ± 0.01 (10)	0.07 ± 0.01 (10)
Percent of Control			90	84	78

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Treatment Groups

	Phase Day	500 mg/kg/day	1000 mg/kg/day
Hematocrit (%)	SD 28	41.7 ± 0.7 (10) **	37.6 ± 1.2 (10) **
Percent of Control		93	83
Manual Hematocrit (%)	SD 28	38 ± 1 (10) **	35 ± 1 (10) **
Percent of Control		92	86
Hemoglobin (g/dL)	SD 28	12.9 ± 0.2 (10) **	11.3 ± 0.4 (10) **
Percent of Control		92	81
Red Blood Cells (M/uL)	SD 28	6.88 ± 0.15 (10) **	5.64 ± 0.18 (10) **
Percent of Control		90	74
Reticulocytes (K/uL)	SD 28	335.8 ± 28.1 (10) **	574.2 ± 38.2 (10) **
Percent of Control		189	323
Mean Cell Volume (fL)	SD 28	60.7 ± 0.6 (10) *	66.6 ± 0.7 (10) **
Percent of Control		103	113
Mean Cell Hemoglobin (pg)	SD 28	18.8 ± 0.2 (10)	20.1 ± 0.2 (10) **
Percent of Control		103	109
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	31.0 ± 0.1 (10)	30.1 ± 0.1 (10) **
Percent of Control		99	97
Platelets (K/uL)	SD 28	1021 ± 45 (10)	1151 ± 55 (10) *
Percent of Control		105	118
White Blood Cells (K/uL)	SD 28	7.20 ± 0.36 (10)	9.34 ± 0.62 (10)
Percent of Control		88	115
Neutrophils (K/uL)	SD 28	0.87 ± 0.07 (10)	1.80 ± 0.30 (10) **
Percent of Control		105	217



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**Treatment Groups**

	<b>Phase Day</b>	<b>500 mg/kg/day</b>	<b>1000 mg/kg/day</b>
Lymphocytes (K/uL)	SD 28	6.08 ± 0.31 (10)	7.18 ± 0.51 (10)
Percent of Control		86	102
Total Lymphocytes (K/uL)	SD 28	6.13 ± 0.32 (10)	7.23 ± 0.51 (10)
Percent of Control		86	102
Monocytes (K/uL)	SD 28	0.12 ± 0.01 (10)	0.22 ± 0.02 (10)
Percent of Control		92	172
Basophils (K/uL)	SD 28	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control		120	120
Eosinophils (K/uL)	SD 28	0.07 ± 0.01 (10)	0.09 ± 0.01 (10)
Percent of Control		81	97

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LEGEND

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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 \*\***