

**Experiment Number:** C20615

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**C Number:**

C20615

**Cage Range:**

All

**Date Range:**

All

**Reasons For Removal:**

All

**Removal Date Range:**

All

**Treatment Groups:**

All

**Study Gender:**

Both

**PA43: Hematology Summary**

**Test Compound:** Perfluorodecanoic Acid

**CAS Number:** 335-76-2

**Date Report Requested:** 12/14/2016

**Time Report Requested:** 15:26:31

**Lab:** Battelle

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Lab: Battelle

Male

Treatment Groups

	Phase Day	0 mg/kg/day	0.156 mg/kg/day	0.312 mg/kg/day	0.625 mg/kg/day
Hematocrit (%)	SD 28	52.2 ± 0.6 (10)	52.9 ± 0.7 (10)	51.7 ± 0.6 (10)	52.3 ± 0.9 (10)
Percent of Control			101	99	100
Manual Hematocrit (%)	SD 28	48 ± 1 (10)	48 ± 1 (10)	46 ± 1 (10)	48 ± 1 (10)
Percent of Control			101	97	101
Hemoglobin (g/dL)	SD 28	15.8 ± 0.2 (10) *	16.2 ± 0.2 (10)	15.8 ± 0.2 (10)	16.1 ± 0.2 (10)
Percent of Control			102	100	102
Red Blood Cells (M/uL)	SD 28	8.62 ± 0.09 (10) **	8.72 ± 0.08 (10)	8.56 ± 0.08 (10)	8.77 ± 0.09 (10)
Percent of Control			101	99	102
Reticulocytes (K/uL)	SD 28	152.8 ± 9.5 (10) **	164.2 ± 6.2 (10)	143.3 ± 6.2 (10)	137.5 ± 7.0 (10)
Percent of Control			107	94	90
Mean Cell Volume (fL)	SD 28	60.6 ± 0.4 (10) **	60.7 ± 0.4 (10)	60.3 ± 0.3 (10)	59.7 ± 0.5 (10)
Percent of Control			100	100	99
Mean Cell Hemoglobin (pg)	SD 28	18.4 ± 0.1 (10) **	18.6 ± 0.1 (10)	18.5 ± 0.1 (10)	18.4 ± 0.1 (10)
Percent of Control			101	101	100
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	30.3 ± 0.1 (10) **	30.6 ± 0.1 (10)	30.7 ± 0.1 (10)	30.8 ± 0.1 (10) **
Percent of Control			101	101	102
Platelets (K/uL)	SD 28	919 ± 29 (10)	870 ± 29 (10)	907 ± 31 (10)	812 ± 33 (10)
Percent of Control			95	99	88
White Blood Cells (K/uL)	SD 28	10.61 ± 0.65 (10)	11.69 ± 0.67 (10)	11.01 ± 0.40 (10)	11.53 ± 0.94 (10)
Percent of Control			110	104	109
Neutrophils (K/uL)	SD 28	1.16 ± 0.14 (10)	1.13 ± 0.13 (10)	0.97 ± 0.08 (10)	1.17 ± 0.11 (10)
Percent of Control			97	83	101

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	Phase Day	0 mg/kg/day	0.156 mg/kg/day	0.312 mg/kg/day	0.625 mg/kg/day
Lymphocytes (K/uL)	SD 28	9.08 ± 0.52 (10)	10.17 ± 0.56 (10)	9.68 ± 0.35 (10)	9.95 ± 0.85 (10)
Percent of Control			112	107	110
Total Lymphocytes (K/uL)	SD 28	9.15 ± 0.52 (10)	10.25 ± 0.56 (10)	9.76 ± 0.35 (10)	10.03 ± 0.87 (10)
Percent of Control			112	107	110
Monocytes (K/uL)	SD 28	0.19 ± 0.03 (10)	0.21 ± 0.02 (10)	0.19 ± 0.02 (10)	0.19 ± 0.02 (10)
Percent of Control			109	102	102
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			136	145	136
Eosinophils (K/uL)	SD 28	0.10 ± 0.01 (10)	0.09 ± 0.01 (10)	0.08 ± 0.01 (10)	0.12 ± 0.02 (10)
Percent of Control			85	77	121

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**Male**

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		Treatment Groups	
	Phase Day	1.25 mg/kg/day	2.5 mg/kg/day
Hematocrit (%)	SD 28	52.2 ± 0.9 (10)	55.1 ± 1.4 (10)
Percent of Control		100	106
Manual Hematocrit (%)	SD 28	48 ± 1 (10)	50 ± 1 (10)
Percent of Control		101	104
Hemoglobin (g/dL)	SD 28	16.2 ± 0.3 (10)	17.2 ± 0.5 (10)
Percent of Control		102	109
Red Blood Cells (M/uL)	SD 28	8.91 ± 0.17 (10)	9.78 ± 0.26 (10) **
Percent of Control		103	113
Reticulocytes (K/uL)	SD 28	69.7 ± 9.4 (10) **	13.0 ± 3.1 (10) **
Percent of Control		46	8
Mean Cell Volume (fL)	SD 28	58.6 ± 0.4 (10) **	56.4 ± 0.4 (10) **
Percent of Control		97	93
Mean Cell Hemoglobin (pg)	SD 28	18.2 ± 0.1 (10)	17.6 ± 0.1 (10) **
Percent of Control		99	96
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	31.1 ± 0.1 (10) **	31.3 ± 0.2 (10) **
Percent of Control		102	103
Platelets (K/uL)	SD 28	961 ± 12 (10)	846 ± 79 (10)
Percent of Control		105	92
White Blood Cells (K/uL)	SD 28	12.24 ± 1.05 (10)	8.76 ± 0.98 (10)
Percent of Control		115	83
Neutrophils (K/uL)	SD 28	0.93 ± 0.11 (10)	1.00 ± 0.14 (10)
Percent of Control		80	86

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**Treatment Groups**

	<b>Phase Day</b>	<b>1.25 mg/kg/day</b>	<b>2.5 mg/kg/day</b>
Lymphocytes (K/uL)	SD 28	10.93 ± 1.04 (10)	7.45 ± 0.91 (10)
Percent of Control		120	82
Total Lymphocytes (K/uL)	SD 28	11.02 ± 1.05 (10)	7.49 ± 0.92 (10)
Percent of Control		120	82
Monocytes (K/uL)	SD 28	0.19 ± 0.02 (10)	0.19 ± 0.03 (10)
Percent of Control		99	102
Basophils (K/uL)	SD 28	0.02 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control		136	118
Eosinophils (K/uL)	SD 28	0.09 ± 0.02 (10)	0.06 ± 0.01 (10)
Percent of Control		93	61

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Female

Treatment Groups

	Phase Day	0 mg/kg/day	0.156 mg/kg/day	0.312 mg/kg/day	0.625 mg/kg/day
Hematocrit (%)	SD 28	47.7 ± 0.6 (10) **	46.5 ± 0.6 (8)	46.6 ± 0.4 (10)	47.6 ± 0.4 (10)
Percent of Control			98	98	100
Manual Hematocrit (%)	SD 28	43 ± 1 (10) **	42 ± 1 (8)	42 ± 0 (10)	43 ± 1 (10)
Percent of Control			98	99	101
Hemoglobin (g/dL)	SD 28	14.8 ± 0.2 (10) **	14.5 ± 0.2 (8)	14.5 ± 0.1 (10)	14.7 ± 0.1 (10)
Percent of Control			98	98	99
Red Blood Cells (M/uL)	SD 28	7.90 ± 0.09 (10) **	7.80 ± 0.11 (8)	7.74 ± 0.05 (10)	7.91 ± 0.07 (10)
Percent of Control			99	98	100
Reticulocytes (K/uL)	SD 28	190.3 ± 14.6 (10) **	180.8 ± 8.6 (8)	183.2 ± 12.1 (10)	179.1 ± 11.0 (10)
Percent of Control			95	96	94
Mean Cell Volume (fL)	SD 28	60.4 ± 0.4 (10) **	59.6 ± 0.3 (8)	60.2 ± 0.4 (10)	60.2 ± 0.4 (10)
Percent of Control			99	100	100
Mean Cell Hemoglobin (pg)	SD 28	18.8 ± 0.1 (10) **	18.6 ± 0.1 (8)	18.8 ± 0.1 (10)	18.6 ± 0.1 (10)
Percent of Control			99	100	99
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	31.1 ± 0.1 (10) **	31.3 ± 0.1 (8)	31.2 ± 0.2 (10)	30.8 ± 0.1 (10)
Percent of Control			101	100	99
Platelets (K/uL)	SD 28	1010 ± 36 (10) **	1000 ± 17 (8)	1002 ± 31 (10)	944 ± 25 (10)
Percent of Control			99	99	93
White Blood Cells (K/uL)	SD 28	7.79 ± 0.62 (10)	8.93 ± 0.59 (8)	8.61 ± 0.42 (10)	7.94 ± 0.61 (10)
Percent of Control			115	111	102
Neutrophils (K/uL)	SD 28	0.81 ± 0.13 (10)	0.74 ± 0.08 (8)	0.67 ± 0.04 (10)	0.76 ± 0.07 (10)
Percent of Control			92	83	95

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Treatment Groups

	Phase Day	0 mg/kg/day	0.156 mg/kg/day	0.312 mg/kg/day	0.625 mg/kg/day
Lymphocytes (K/uL)	SD 28	6.65 ± 0.49 (10)	7.88 ± 0.54 (8)	7.61 ± 0.37 (10)	6.88 ± 0.54 (10)
Percent of Control			118	114	103
Total Lymphocytes (K/uL)	SD 28	6.70 ± 0.49 (10)	7.94 ± 0.55 (8)	7.68 ± 0.38 (10)	6.93 ± 0.55 (10)
Percent of Control			118	115	103
Monocytes (K/uL)	SD 28	0.17 ± 0.03 (10) *	0.17 ± 0.03 (8)	0.18 ± 0.02 (10)	0.15 ± 0.01 (10)
Percent of Control			99	105	92
Basophils (K/uL)	SD 28	0.01 ± 0.00 (10) **	0.01 ± 0.00 (8)	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control			161	114	143
Eosinophils (K/uL)	SD 28	0.11 ± 0.01 (10) **	0.08 ± 0.01 (8)	0.08 ± 0.01 (10)	0.09 ± 0.01 (10)
Percent of Control			71	75	81

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Treatment Groups

	Phase Day	1.25 mg/kg/day	2.5 mg/kg/day
Hematocrit (%)	SD 28	50.5 ± 0.7 (10) *	54.4 ± 1.3 (10) **
Percent of Control		106	114
Manual Hematocrit (%)	SD 28	46 ± 1 (10) **	50 ± 1 (9) **
Percent of Control		108	117
Hemoglobin (g/dL)	SD 28	15.8 ± 0.2 (10) **	17.6 ± 0.5 (10) **
Percent of Control		107	119
Red Blood Cells (M/uL)	SD 28	8.61 ± 0.16 (10) *	9.70 ± 0.23 (10) **
Percent of Control		109	123
Reticulocytes (K/uL)	SD 28	71.6 ± 7.6 (10) **	19.3 ± 5.3 (10) **
Percent of Control		38	10
Mean Cell Volume (fL)	SD 28	58.7 ± 0.5 (10) *	56.1 ± 0.5 (10) **
Percent of Control		97	93
Mean Cell Hemoglobin (pg)	SD 28	18.3 ± 0.2 (10)	18.1 ± 0.1 (10) **
Percent of Control		98	97
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	31.2 ± 0.2 (10)	32.4 ± 0.3 (10) **
Percent of Control		100	104
Platelets (K/uL)	SD 28	918 ± 23 (10)	706 ± 85 (10) **
Percent of Control		91	70
White Blood Cells (K/uL)	SD 28	10.66 ± 0.75 (10) *	7.81 ± 0.42 (10)
Percent of Control		137	100
Neutrophils (K/uL)	SD 28	0.88 ± 0.10 (10)	0.81 ± 0.09 (10)
Percent of Control		109	100



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Treatment Groups

	Phase Day	1.25 mg/kg/day	2.5 mg/kg/day
Lymphocytes (K/uL)	SD 28	9.38 ± 0.67 (10) *	6.67 ± 0.39 (10)
Percent of Control		141	100
Total Lymphocytes (K/uL)	SD 28	9.45 ± 0.68 (10) *	6.71 ± 0.39 (10)
Percent of Control		141	100
Monocytes (K/uL)	SD 28	0.21 ± 0.02 (10)	0.24 ± 0.02 (10) *
Percent of Control		128	141
Basophils (K/uL)	SD 28	0.02 ± 0.00 (10) **	0.01 ± 0.00 (10) **
Percent of Control		257	171
Eosinophils (K/uL)	SD 28	0.10 ± 0.01 (10)	0.04 ± 0.01 (10) **
Percent of Control		95	40

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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 \*\***