

Study Number: C04051-01
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Sprague Dawley

PA43: Hematology Summary
Test Compound: 1,1,2,2-Tetrahydroperfluoro-1-dodecanol
CAS Number: 865-86-1

Date Report Requested: 12/07/2020
Time Report Requested: 15:29:20
Lab: Battelle

Study Number: C04051-01
Study Gender: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.1.3

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Lab: Battelle

Male: Core Animals

	Phase Day	Treatment Groups (mg/kg)			
		0	0.07	0.2	0.7
Hematocrit (%)	SD 5	48.7 ± 0.7 (10)	47.7 ± 1.3 (5)	48.3 ± 0.8 (5)	48.3 ± 1.1 (5)
Percent of Control			98.0	99.3	99.2
Manual Hematocrit (%)	SD 5	47.4 ± 0.8 (10)	46.0 ± 1.3 (5)	46.0 ± 1.0 (5)	46.8 ± 1.4 (5)
Percent of Control			97.0	97.0	98.7
Hemoglobin (g/dL)	SD 5	14.6 ± 0.2 (10)	14.3 ± 0.4 (5)	14.3 ± 0.3 (5)	14.4 ± 0.3 (5)
Percent of Control			98.0	98.0	98.7
Erythrocytes (10 ⁶ /uL)	SD 5	7.91 ± 0.12 (10)	7.79 ± 0.24 (5)	7.89 ± 0.22 (5)	7.87 ± 0.14 (5)
Percent of Control			98.4	99.7	99.4
Reticulocytes (10 ³ /uL)	SD 5	227.4 ± 9.7 (10) **	226.4 ± 9.3 (5)	264.3 ± 16.1 (5)	258.4 ± 19.0 (5)
Percent of Control			99.6	116.2	113.6
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (5)	0.00 ± 0.00 (3)		0.00 ± 0.00 (2)
Mean Cell Volume (fL)	SD 5	61.5 ± 0.5 (10)	61.3 ± 0.4 (5)	61.4 ± 0.9 (5)	61.3 ± 0.9 (5)
Percent of Control			99.6	99.8	99.7
Mean Cell Hemoglobin (pg)	SD 5	18.4 ± 0.2 (10)	18.4 ± 0.1 (5)	18.1 ± 0.2 (5)	18.3 ± 0.2 (5)
Percent of Control			99.8	98.4	99.4
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	30.0 ± 0.2 (10)	30.1 ± 0.0 (5)	29.6 ± 0.2 (5)	29.9 ± 0.2 (5)
Percent of Control			100.3	98.7	99.7
Platelets (10 ³ /uL)	SD 5	877 ± 57 (10)	974 ± 50 (5)	925 ± 31 (5)	949 ± 70 (5)
Percent of Control			111.1	105.5	108.2
White Blood Cells (10 ³ /uL)	SD 5	10.02 ± 1.10 (10)	8.95 ± 1.36 (5)	8.87 ± 0.74 (5)	8.64 ± 0.76 (5)
Percent of Control			89.3	88.6	86.2
Neutrophils (10 ³ /uL)	SD 5	0.94 ± 0.15 (10)	0.74 ± 0.08 (5)	0.91 ± 0.06 (5)	0.94 ± 0.13 (5)

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Male: Core Animals

	Phase Day	Treatment Groups (mg/kg)			
		0	0.07	0.2	0.7
Percent of Control			78.2	96.4	99.6
Lymphocytes (10 ³ /uL)	SD 5	8.50 ± 0.95 (10)	7.64 ± 1.17 (5)	7.30 ± 0.63 (5)	7.15 ± 0.73 (5)
Percent of Control			89.9	85.9	84.2
Monocytes (10 ³ /uL)	SD 5	0.36 ± 0.06 (10)	0.43 ± 0.08 (5)	0.50 ± 0.10 (5)	0.36 ± 0.04 (5)
Percent of Control			119.9	138.9	100.3
Basophils (10 ³ /uL)	SD 5	0.03 ± 0.00 (10)	0.03 ± 0.01 (5)	0.02 ± 0.00 (5)	0.02 ± 0.00 (5)
Percent of Control			100.0	84.6	84.6
Eosinophils (10 ³ /uL)	SD 5	0.12 ± 0.03 (10)	0.06 ± 0.02 (5)	0.08 ± 0.02 (5)	0.09 ± 0.04 (5)
Percent of Control			48.7	67.8	78.3
Large Unstained Cells (10 ³ /uL)	SD 5	0.07 ± 0.01 (10)	0.07 ± 0.01 (5)	0.07 ± 0.01 (5)	0.07 ± 0.01 (5)
Percent of Control			91.7	97.2	100.0

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Male: Core Animals

		Treatment Groups (mg/kg)			
	Phase Day	2	6	18	55
Hematocrit (%)	SD 5	48.4 ± 1.0 (5)	47.7 ± 1.6 (5)	47.7 ± 1.3 (5)	48.6 ± 0.5 (5)
Percent of Control		99.5	98.1	98.0	99.9
Manual Hematocrit (%)	SD 5	46.4 ± 0.8 (5)	46.2 ± 1.4 (5)	46.8 ± 0.7 (5)	47.0 ± 0.7 (5)
Percent of Control		97.9	97.5	98.7	99.2
Hemoglobin (g/dL)	SD 5	14.6 ± 0.3 (5)	14.3 ± 0.4 (5)	14.3 ± 0.4 (5)	14.4 ± 0.1 (5)
Percent of Control		99.9	97.9	98.3	98.4
Erythrocytes (10 ⁶ /uL)	SD 5	7.95 ± 0.15 (5)	7.75 ± 0.28 (5)	7.77 ± 0.18 (5)	7.95 ± 0.12 (5)
Percent of Control		100.5	98.0	98.2	100.4
Reticulocytes (10 ³ /uL)	SD 5	234.7 ± 15.1 (5)	241.2 ± 11.9 (5)	216.7 ± 17.7 (5)	210.6 ± 3.9 (5)
Percent of Control		103.2	106.1	95.3	92.6
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (5)			0.00 ± 0.00 (5)
Mean Cell Volume (fL)	SD 5	60.9 ± 0.7 (5)	61.6 ± 0.7 (5)	61.4 ± 0.4 (5)	61.2 ± 0.8 (5)
Percent of Control		98.9	100.2	99.8	99.4
Mean Cell Hemoglobin (pg)	SD 5	18.3 ± 0.2 (5)	18.4 ± 0.3 (5)	18.4 ± 0.2 (5)	18.1 ± 0.3 (5)
Percent of Control		99.5	99.9	99.9	98.2
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	30.1 ± 0.3 (5)	29.9 ± 0.2 (5)	30.0 ± 0.2 (5)	29.6 ± 0.1 (5)
Percent of Control		100.5	99.7	100.2	98.7
Platelets (10 ³ /uL)	SD 5	960 ± 52 (5)	935 ± 21 (5)	907 ± 20 (5)	939 ± 43 (5)
Percent of Control		109.5	106.6	103.4	107.1
White Blood Cells (10 ³ /uL)	SD 5	8.83 ± 0.43 (5)	9.72 ± 0.97 (5)	11.41 ± 0.88 (5)	10.08 ± 0.59 (5)
Percent of Control		88.2	97.0	113.9	100.6
Neutrophils (10 ³ /uL)	SD 5	0.88 ± 0.06 (5)	0.87 ± 0.10 (5)	0.90 ± 0.09 (5)	1.04 ± 0.09 (5)

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Male: Core Animals

	Phase Day	Treatment Groups (mg/kg)			
		2	6	18	55
Percent of Control		93.2	91.7	94.9	110.0
Lymphocytes (10 ³ /uL)	SD 5	7.38 ± 0.48 (5)	8.28 ± 0.88 (5)	9.96 ± 0.72 (5)	8.34 ± 0.37 (5)
Percent of Control		86.9	97.4	117.3	98.2
Monocytes (10 ³ /uL)	SD 5	0.37 ± 0.06 (5)	0.42 ± 0.07 (5)	0.38 ± 0.07 (5)	0.52 ± 0.15 (5)
Percent of Control		104.8	117.1	107.6	145.1
Basophils (10 ³ /uL)	SD 5	0.02 ± 0.00 (5)	0.03 ± 0.01 (5)	0.03 ± 0.01 (5)	0.03 ± 0.01 (5)
Percent of Control		84.6	100.0	130.8	100.0
Eosinophils (10 ³ /uL)	SD 5	0.11 ± 0.05 (5)	0.05 ± 0.01 (5)	0.05 ± 0.01 (5)	0.06 ± 0.00 (5)
Percent of Control		95.7	45.2	47.0	53.9
Large Unstained Cells (10 ³ /uL)	SD 5	0.07 ± 0.01 (5)	0.07 ± 0.01 (5)	0.08 ± 0.01 (5)	0.09 ± 0.02 (5)
Percent of Control		91.7	100.0	116.7	127.8

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Lab: Battelle

Male: Core Animals

	Phase Day	Treatment Groups (mg/kg)	
		160	475
Hematocrit (%)	SD 5	50.5 ± 0.7 (5)	49.4 ± 1.1 (4)
Percent of Control		103.7	101.6
Manual Hematocrit (%)	SD 5	48.0 ± 0.9 (5)	48.3 ± 0.9 (4)
Percent of Control		101.3	101.8
Hemoglobin (g/dL)	SD 5	15.1 ± 0.2 (5)	14.6 ± 0.3 (4)
Percent of Control		103.2	99.7
Erythrocytes (10 ⁶ /uL)	SD 5	8.15 ± 0.14 (5)	8.09 ± 0.21 (4)
Percent of Control		103.0	102.2
Reticulocytes (10 ³ /uL)	SD 5	226.6 ± 24.3 (5)	174.5 ± 7.3 (4) *
Percent of Control		99.6	76.7
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (5)	0.00 ± 0.00 (4)
Mean Cell Volume (fL)	SD 5	62.0 ± 0.9 (5)	61.1 ± 0.7 (4)
Percent of Control		100.7	99.4
Mean Cell Hemoglobin (pg)	SD 5	18.5 ± 0.3 (5)	18.0 ± 0.2 (4)
Percent of Control		100.4	97.7
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	29.9 ± 0.2 (5)	29.5 ± 0.0 (4)
Percent of Control		99.8	98.4
Platelets (10 ³ /uL)	SD 5	688 ± 120 (5)	826 ± 58 (4)
Percent of Control		78.5	94.2
White Blood Cells (10 ³ /uL)	SD 5	10.12 ± 0.58 (5)	9.55 ± 0.90 (4)
Percent of Control		101.0	95.3
Neutrophils (10 ³ /uL)	SD 5	1.03 ± 0.17 (5)	1.00 ± 0.05 (4)

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Male: Core Animals

	Phase Day	Treatment Groups (mg/kg)	
		160	475
Percent of Control		108.7	105.9
Lymphocytes (10 ³ /uL)	SD 5	8.48 ± 0.60 (5)	7.82 ± 0.87 (4)
Percent of Control		99.9	92.1
Monocytes (10 ³ /uL)	SD 5	0.45 ± 0.04 (5)	0.53 ± 0.10 (4)
Percent of Control		125.5	147.8
Basophils (10 ³ /uL)	SD 5	0.03 ± 0.00 (5)	0.03 ± 0.01 (4)
Percent of Control		107.7	96.2
Eosinophils (10 ³ /uL)	SD 5	0.06 ± 0.02 (5)	0.09 ± 0.02 (4)
Percent of Control		55.7	78.3
Large Unstained Cells (10 ³ /uL)	SD 5	0.06 ± 0.01 (5)	0.08 ± 0.01 (4)
Percent of Control		88.9	114.6

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Lab: Battelle

Female: Core Animals

	Phase Day	Treatment Groups (mg/kg)			
		0	0.07	0.2	0.7
Hematocrit (%)	SD 5	45.0 ± 0.8 (10) *	46.9 ± 0.9 (5)	45.6 ± 0.7 (5)	45.8 ± 1.4 (4)
Percent of Control			104.3	101.4	101.8
Manual Hematocrit (%)	SD 5	43.9 ± 0.5 (10)	45.6 ± 0.6 (5)	45.6 ± 0.5 (5)	44.3 ± 1.7 (4)
Percent of Control			103.9	103.9	100.8
Hemoglobin (g/dL)	SD 5	13.6 ± 0.3 (10) *	14.3 ± 0.3 (5)	13.7 ± 0.3 (5)	13.9 ± 0.4 (4)
Percent of Control			105.2	101.2	102.2
Erythrocytes (10 ⁶ /uL)	SD 5	7.49 ± 0.16 (10)	7.66 ± 0.10 (5)	7.56 ± 0.10 (5)	7.58 ± 0.21 (4)
Percent of Control			102.3	101.1	101.3
Reticulocytes (10 ³ /uL)	SD 5	223.2 ± 12.4 (10) *	243.7 ± 22.6 (5)	225.1 ± 12.5 (5)	211.2 ± 17.5 (4)
Percent of Control			109.2	100.8	94.6
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (3)	0.00 ± 0.00 (5)	0.00 ± 0.00 (5)	0.00 ± 0.00 (4)
Mean Cell Volume (fL)	SD 5	60.2 ± 0.6 (10)	61.3 ± 0.6 (5)	60.3 ± 0.6 (5)	60.4 ± 0.5 (4)
Percent of Control			101.8	100.2	100.3
Mean Cell Hemoglobin (pg)	SD 5	18.2 ± 0.2 (10)	18.6 ± 0.2 (5)	18.2 ± 0.2 (5)	18.3 ± 0.1 (4)
Percent of Control			102.4	100.0	100.8
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	30.2 ± 0.2 (10)	30.4 ± 0.2 (5)	30.1 ± 0.2 (5)	30.4 ± 0.2 (4)
Percent of Control			100.5	99.7	100.4
Platelets (10 ³ /uL)	SD 5	1041 ± 37 (10) **	1067 ± 52 (5)	997 ± 34 (5)	971 ± 26 (4)
Percent of Control			102.5	95.7	93.2
White Blood Cells (10 ³ /uL)	SD 5	5.94 ± 0.42 (10) *	7.71 ± 0.69 (5)	6.86 ± 1.01 (5)	6.33 ± 0.11 (4)
Percent of Control			129.7	115.4	106.5
Neutrophils (10 ³ /uL)	SD 5	0.42 ± 0.03 (10) **	0.53 ± 0.03 (5)	0.62 ± 0.06 (5)	0.49 ± 0.03 (4)

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Lab: Battelle

Female: Core Animals

	Phase Day	Treatment Groups (mg/kg)			
		0	0.07	0.2	0.7
Percent of Control			125.5	147.0	117.5
Lymphocytes (10 ³ /uL)	SD 5	5.24 ± 0.38 (10)	6.79 ± 0.69 (5)	5.91 ± 0.91 (5)	5.52 ± 0.11 (4)
Percent of Control			129.7	112.8	105.4
Monocytes (10 ³ /uL)	SD 5	0.18 ± 0.02 (10) **	0.20 ± 0.03 (5)	0.22 ± 0.05 (5)	0.17 ± 0.02 (4)
Percent of Control			108.9	120.0	94.4
Basophils (10 ³ /uL)	SD 5	0.01 ± 0.00 (10)	0.01 ± 0.00 (5)	0.02 ± 0.01 (5)	0.02 ± 0.00 (4)
Percent of Control			140.0	160.0	150.0
Eosinophils (10 ³ /uL)	SD 5	0.06 ± 0.01 (10)	0.13 ± 0.06 (5)	0.07 ± 0.02 (5)	0.10 ± 0.04 (4)
Percent of Control			229.1	120.0	181.8
Large Unstained Cells (10 ³ /uL)	SD 5	0.04 ± 0.00 (10) **	0.05 ± 0.01 (5)	0.04 ± 0.01 (5)	0.04 ± 0.01 (4)
Percent of Control			125.0	90.0	87.5

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	Phase Day	Treatment Groups (mg/kg)			
		2	6	18	55
Hematocrit (%)	SD 5	45.1 ± 1.0 (4)	44.1 ± 0.7 (5)	44.1 ± 1.1 (5)	44.5 ± 0.8 (5)
Percent of Control		100.1	98.0	98.0	98.9
Manual Hematocrit (%)	SD 5	43.3 ± 1.5 (4)	43.2 ± 0.5 (5)	43.6 ± 1.2 (5)	43.4 ± 0.2 (5)
Percent of Control		98.5	98.4	99.3	98.9
Hemoglobin (g/dL)	SD 5	13.8 ± 0.4 (4)	13.3 ± 0.3 (5)	13.4 ± 0.3 (5)	13.5 ± 0.2 (5)
Percent of Control		101.8	98.2	98.5	99.1
Erythrocytes (10 ⁶ /uL)	SD 5	7.57 ± 0.19 (4)	7.30 ± 0.14 (5)	7.36 ± 0.21 (5)	7.44 ± 0.18 (5)
Percent of Control		101.1	97.6	98.3	99.3
Reticulocytes (10 ³ /uL)	SD 5	218.4 ± 16.0 (4)	207.9 ± 8.1 (5)	223.5 ± 18.3 (5)	182.2 ± 5.2 (5)
Percent of Control		97.8	93.2	100.1	81.6
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (4)	0.00 ± 0.00 (5)	0.00 ± 0.00 (5)	0.00 ± 0.00 (5)
Mean Cell Volume (fL)	SD 5	59.6 ± 0.6 (4)	60.5 ± 0.3 (5)	60.0 ± 0.8 (5)	59.9 ± 1.0 (5)
Percent of Control		98.9	100.5	99.6	99.5
Mean Cell Hemoglobin (pg)	SD 5	18.3 ± 0.2 (4)	18.3 ± 0.1 (5)	18.2 ± 0.2 (5)	18.1 ± 0.3 (5)
Percent of Control		100.4	100.4	100.1	99.8
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	30.7 ± 0.2 (4)	30.2 ± 0.2 (5)	30.4 ± 0.3 (5)	30.2 ± 0.2 (5)
Percent of Control		101.4	99.9	100.6	100.0
Platelets (10 ³ /uL)	SD 5	997 ± 19 (4)	966 ± 28 (5)	926 ± 31 (5)	1011 ± 21 (5)
Percent of Control		95.7	92.7	88.9	97.1
White Blood Cells (10 ³ /uL)	SD 5	5.74 ± 0.31 (4)	7.54 ± 0.79 (5)	6.86 ± 0.81 (5)	7.23 ± 0.70 (5)
Percent of Control		96.6	126.9	115.5	121.8
Neutrophils (10 ³ /uL)	SD 5	0.53 ± 0.08 (4)	0.57 ± 0.09 (5)	0.53 ± 0.08 (5)	0.61 ± 0.05 (5) **

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Female: Core Animals

	Phase Day	Treatment Groups (mg/kg)			
		2	6	18	55
Percent of Control		125.3	136.0	127.4	146.5
Lymphocytes (10 ³ /uL)	SD 5	4.91 ± 0.21 (4)	6.55 ± 0.69 (5)	5.97 ± 0.72 (5)	6.22 ± 0.63 (5)
Percent of Control		93.8	125.0	114.1	118.8
Monocytes (10 ³ /uL)	SD 5	0.19 ± 0.04 (4)	0.29 ± 0.04 (5)	0.24 ± 0.03 (5)	0.28 ± 0.04 (5)
Percent of Control		105.6	160.0	135.6	154.4
Basophils (10 ³ /uL)	SD 5	0.01 ± 0.00 (4)	0.02 ± 0.00 (5)	0.01 ± 0.00 (5)	0.01 ± 0.00 (5)
Percent of Control		50.0	160.0	60.0	100.0
Eosinophils (10 ³ /uL)	SD 5	0.06 ± 0.01 (4)	0.06 ± 0.01 (5)	0.06 ± 0.01 (5)	0.06 ± 0.01 (5)
Percent of Control		104.5	116.4	105.5	101.8
Large Unstained Cells (10 ³ /uL)	SD 5	0.04 ± 0.01 (4)	0.05 ± 0.01 (5)	0.04 ± 0.01 (5)	0.05 ± 0.01 (5)
Percent of Control		106.3	125.0	100.0	130.0

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	Phase Day	Treatment Groups (mg/kg)	
		160	475
Hematocrit (%)	SD 5	45.2 ± 0.6 (5)	44.0 ± 0.4 (5)
Percent of Control		100.4	97.7
Manual Hematocrit (%)	SD 5	44.2 ± 0.6 (5)	42.8 ± 0.4 (5)
Percent of Control		100.7	97.5
Hemoglobin (g/dL)	SD 5	13.5 ± 0.2 (5)	13.4 ± 0.2 (5)
Percent of Control		99.6	98.4
Erythrocytes (10 ⁶ /uL)	SD 5	7.50 ± 0.05 (5)	7.28 ± 0.14 (5)
Percent of Control		100.2	97.3
Reticulocytes (10 ³ /uL)	SD 5	192.8 ± 10.8 (5)	201.6 ± 7.9 (5)
Percent of Control		86.4	90.3
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (5)	0.00 ± 0.00 (5)
Mean Cell Volume (fL)	SD 5	60.3 ± 0.6 (5)	60.5 ± 0.8 (5)
Percent of Control		100.1	100.5
Mean Cell Hemoglobin (pg)	SD 5	18.0 ± 0.2 (5)	18.4 ± 0.2 (5)
Percent of Control		99.0	101.1
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	29.9 ± 0.2 (5)	30.4 ± 0.2 (5)
Percent of Control		98.8	100.6
Platelets (10 ³ /uL)	SD 5	916 ± 34 (5) *	823 ± 55 (5) **
Percent of Control		88.0	79.1
White Blood Cells (10 ³ /uL)	SD 5	7.88 ± 0.95 (5)	7.56 ± 0.79 (5)
Percent of Control		132.6	127.2
Neutrophils (10 ³ /uL)	SD 5	0.60 ± 0.12 (5) *	0.72 ± 0.11 (5) **

Study Number: C04051-01
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Sprague Dawley

PA43: Hematology Summary
Test Compound: 1,1,2,2-Tetrahydroperfluoro-1-dodecanol
CAS Number: 865-86-1

Date Report Requested: 12/07/2020
Time Report Requested: 15:29:20
Lab: Battelle

Female: Core Animals

	Phase Day	Treatment Groups (mg/kg)	
		160	475
Percent of Control		144.2	171.4
Lymphocytes (10 ³ /uL)	SD 5	6.73 ± 0.81 (5)	6.32 ± 0.56 (5)
Percent of Control		128.6	120.7
Monocytes (10 ³ /uL)	SD 5	0.38 ± 0.07 (5) **	0.30 ± 0.09 (5) *
Percent of Control		213.3	167.8
Basophils (10 ³ /uL)	SD 5	0.02 ± 0.01 (5)	0.02 ± 0.00 (5)
Percent of Control		240.0	160.0
Eosinophils (10 ³ /uL)	SD 5	0.07 ± 0.01 (5)	0.13 ± 0.04 (5)
Percent of Control		123.6	236.4
Large Unstained Cells (10 ³ /uL)	SD 5	0.06 ± 0.01 (5) *	0.07 ± 0.02 (5) *
Percent of Control		160.0	175.0

Study Number: C04051-01
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Species/Strain: Rat/Sprague Dawley

PA43: Hematology Summary
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Lab: Battelle

LEGEND

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

SD – Study Day

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

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

**** END OF REPORT ****