

**Experiment Number:** C07018-02

**Test Type:** TOX

**Route:** Dosing in Water

**Species/Strain:** Mouse/B6C3F1/N

**PA43: Hematology Summary**

**Test Compound:** 1-Ethyl-3-Methylimidazolium Chloride

**CAS Number:** 65039-09-0

**Date Report Requested:** 06/15/2018

**Time Report Requested:** 15:48:53

**Lab:** NTP

**C Number:** C07018-02

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Both

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Male

	Phase Day	Treatment Groups (mg/mL)			
		0	3	10	30
Hematocrit (%)	SD 92	49.4 ± 0.5 (10)	50.0 ± 0.6 (10)	49.2 ± 0.3 (10)	51.0 ± 0.4 (10)
Percent of Control			101.2	99.6	103.4
Manual Hematocrit (%)	SD 92	48.7 ± 0.3 (10) *	49.3 ± 0.4 (10)	48.8 ± 0.4 (10)	50.2 ± 0.4 (10) *
Percent of Control			101.2	100.2	103.1
Hemoglobin (g/dL)	SD 92	15.7 ± 0.1 (10)	15.8 ± 0.2 (10)	15.5 ± 0.1 (10)	16.1 ± 0.1 (10)
Percent of Control			100.6	98.7	102.4
Erythrocytes (10 <sup>6</sup> /uL)	SD 92	11.05 ± 0.09 (10) **	11.13 ± 0.14 (10)	11.07 ± 0.08 (10)	11.62 ± 0.11 (10) **
Percent of Control			100.72	100.16	105.14
Reticulocytes (10 <sup>3</sup> /uL)	SD 92	241.9 ± 8.0 (10) **	233.2 ± 7.4 (10)	253.7 ± 7.4 (10)	273.8 ± 3.7 (10) **
Percent of Control			96.4	104.9	113.2
Mean Cell Volume (fL)	SD 92	44.7 ± 0.2 (10) **	44.9 ± 0.1 (10)	44.4 ± 0.2 (10)	43.9 ± 0.1 (10) *
Percent of Control			100.4	99.4	98.3
Mean Cell Hemoglobin (pg)	SD 92	14.2 ± 0.1 (10) **	14.2 ± 0.1 (10)	14.0 ± 0.1 (10)	13.9 ± 0.1 (10) **
Percent of Control			99.9	98.4	97.3
Mean Cell Hemoglobin Concentration (g/dL)	SD 92	31.9 ± 0.2 (10)	31.7 ± 0.2 (10)	31.6 ± 0.2 (10)	31.5 ± 0.1 (10)
Percent of Control			99.4	99.1	99.0
Platelets (10 <sup>3</sup> /uL)	SD 92	986 ± 37 (10) *	989 ± 37 (10)	963 ± 32 (10)	892 ± 24 (10)
Percent of Control			100	98	90
White Blood Cells (10 <sup>3</sup> /uL)	SD 92	3.87 ± 0.29 (10)	3.20 ± 0.39 (10)	3.94 ± 0.24 (10)	3.45 ± 0.26 (10)
Percent of Control			82.76	101.68	89.25
Neutrophils (10 <sup>3</sup> /uL)	SD 92	0.58 ± 0.05 (10)	0.43 ± 0.07 (10)	0.52 ± 0.04 (10)	0.46 ± 0.04 (10)
Percent of Control			74.96	90.96	79.48

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	Phase Day	Treatment Groups (mg/mL)			
		0	3	10	30
Lymphocytes (10 <sup>3</sup> /uL)	SD 92	3.09 ± 0.23 (10)	2.63 ± 0.31 (10)	3.19 ± 0.19 (10)	2.84 ± 0.23 (10)
Percent of Control			85.38	103.31	92.09
Total Lymphocytes (10 <sup>3</sup> /uL)	SD 92	3.10 ± 0.23 (10)	2.65 ± 0.31 (10)	3.20 ± 0.20 (10)	2.85 ± 0.23 (10)
Percent of Control			85.30	103.29	91.81
Monocytes (10 <sup>3</sup> /uL)	SD 92	0.11 ± 0.01 (10)	0.09 ± 0.02 (10)	0.13 ± 0.01 (10)	0.08 ± 0.01 (10)
Percent of Control			79.63	115.74	72.22
Basophils (10 <sup>3</sup> /uL)	SD 92	0.00 ± 0.00 (10)	0.00 ± 0.00 (10) *	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)
Percent of Control			0.00	25.00	25.00
Eosinophils (10 <sup>3</sup> /uL)	SD 92	0.08 ± 0.02 (10)	0.04 ± 0.01 (10) *	0.08 ± 0.01 (10)	0.07 ± 0.01 (10)
Percent of Control			52.44	102.44	80.49
Large Unstained Cells (10 <sup>3</sup> /uL)	SD 92	0.02 ± 0.00 (10) *	0.01 ± 0.00 (10)	0.02 ± 0.00 (10)	0.01 ± 0.00 (10) *
Percent of Control			70.59	100.00	41.18

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Female

	Phase Day	Treatment Groups (mg/mL)			
		0	3	10	30
Hematocrit (%)	SD 92	48.2 ± 1.0 (10) *	48.9 ± 0.9 (10)	50.5 ± 1.5 (10)	52.3 ± 1.3 (10)
Percent of Control			101.5	104.8	108.4
Manual Hematocrit (%)	SD 92	47.6 ± 0.9 (10) *	47.9 ± 0.7 (10)	50.0 ± 1.2 (10)	51.2 ± 1.2 (10)
Percent of Control			100.6	105.0	107.6
Hemoglobin (g/dL)	SD 92	15.6 ± 0.3 (10) *	16.0 ± 0.2 (10)	16.5 ± 0.4 (10)	17.0 ± 0.4 (10)
Percent of Control			102.7	105.5	108.5
Erythrocytes (10 <sup>6</sup> /uL)	SD 92	10.84 ± 0.20 (10) **	11.06 ± 0.17 (10)	11.45 ± 0.29 (10)	11.99 ± 0.28 (10) **
Percent of Control			102.05	105.64	110.63
Reticulocytes (10 <sup>3</sup> /uL)	SD 92	231.5 ± 17.4 (10) *	270.9 ± 14.7 (10)	291.3 ± 18.8 (10) *	280.7 ± 11.5 (10)
Percent of Control			117.0	125.8	121.2
Mean Cell Volume (fL)	SD 92	44.5 ± 0.3 (10) *	44.2 ± 0.2 (10)	44.1 ± 0.3 (10)	43.6 ± 0.3 (10)
Percent of Control			99.4	99.2	98.0
Mean Cell Hemoglobin (pg)	SD 92	14.4 ± 0.1 (10) *	14.5 ± 0.1 (10)	14.4 ± 0.1 (10)	14.1 ± 0.1 (10)
Percent of Control			100.4	99.7	97.9
Mean Cell Hemoglobin Concentration (g/dL)	SD 92	32.4 ± 0.3 (10)	32.8 ± 0.3 (10)	32.6 ± 0.2 (10)	32.4 ± 0.2 (10)
Percent of Control			101.2	100.6	100.0
Platelets (10 <sup>3</sup> /uL)	SD 92	659 ± 60 (10) **	642 ± 37 (10)	585 ± 52 (10)	522 ± 49 (10) *
Percent of Control			97	89	79
White Blood Cells (10 <sup>3</sup> /uL)	SD 92	2.72 ± 0.27 (10)	2.73 ± 0.18 (10)	2.87 ± 0.28 (10)	3.05 ± 0.62 (10)
Percent of Control			100.29	105.48	112.21
Neutrophils (10 <sup>3</sup> /uL)	SD 92	0.36 ± 0.07 (10)	0.34 ± 0.05 (10)	0.43 ± 0.08 (10)	0.41 ± 0.11 (10)
Percent of Control			93.96	119.23	113.74

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Female

	Phase Day	Treatment Groups (mg/mL)			
		0	3	10	30
Lymphocytes (10 <sup>3</sup> /uL)	SD 92	2.22 ± 0.21 (10)	2.27 ± 0.15 (10)	2.31 ± 0.21 (10)	2.51 ± 0.49 (10)
Percent of Control			102.16	103.87	113.19
Total Lymphocytes (10 <sup>3</sup> /uL)	SD 92	2.23 ± 0.22 (10)	2.28 ± 0.15 (10)	2.32 ± 0.21 (10)	2.53 ± 0.50 (10)
Percent of Control			102.15	103.85	113.26
Monocytes (10 <sup>3</sup> /uL)	SD 92	0.07 ± 0.01 (10)	0.06 ± 0.01 (10)	0.06 ± 0.01 (10)	0.06 ± 0.01 (10)
Percent of Control			84.93	84.93	87.67
Basophils (10 <sup>3</sup> /uL)	SD 92	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)
Percent of Control			0.00	66.67	33.33
Eosinophils (10 <sup>3</sup> /uL)	SD 92	0.05 ± 0.01 (10)	0.04 ± 0.01 (10)	0.05 ± 0.01 (10)	0.04 ± 0.01 (10)
Percent of Control			87.50	112.50	85.42
Large Unstained Cells (10 <sup>3</sup> /uL)	SD 92	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.01 ± 0.01 (10)
Percent of Control			100.00	100.00	127.27

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LEGEND

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

SD – Study Day; GD – Gestation Day; LD – Lactation Day; PND – Postnatal Day, adults post-weaning

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

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 \*\***