

Experiment Number: C07018-01

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

PA43: Hematology Summary

Test Compound: 1-Ethyl-3-Methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 06/15/2018

Time Report Requested: 15:48:47

Lab: NTP

C Number: C07018-01

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	1	3	10
Hematocrit (%)	SD 92	50.8 ± 0.6 (10)	51.0 ± 0.9 (10)	52.2 ± 0.4 (10)	51.3 ± 0.7 (10)
Percent of Control			100.4	102.8	101.0
Manual Hematocrit (%)	SD 92	49.7 ± 0.5 (10)	49.0 ± 0.6 (10)	49.1 ± 0.6 (10)	49.3 ± 0.7 (10)
Percent of Control			98.6	98.8	99.2
Hemoglobin (g/dL)	SD 92	15.9 ± 0.2 (10)	16.0 ± 0.2 (10)	16.2 ± 0.1 (10)	15.9 ± 0.2 (10)
Percent of Control			100.8	102.1	100.5
Erythrocytes (10 ⁶ /uL)	SD 92	9.40 ± 0.12 (10)	9.26 ± 0.16 (10)	9.57 ± 0.14 (10)	9.35 ± 0.13 (10)
Percent of Control			98.48	101.82	99.47
Reticulocytes (10 ³ /uL)	SD 92	181.7 ± 4.9 (10)	193.5 ± 8.0 (10)	191.4 ± 6.0 (10)	185.3 ± 7.3 (10)
Percent of Control			106.5	105.4	102.0
Mean Cell Volume (fL)	SD 92	54.0 ± 0.5 (10)	55.1 ± 0.5 (10)	54.6 ± 0.6 (10)	54.9 ± 0.3 (10)
Percent of Control			102.0	101.0	101.6
Mean Cell Hemoglobin (pg)	SD 92	16.9 ± 0.2 (10)	17.3 ± 0.1 (10)	16.9 ± 0.2 (10)	17.1 ± 0.1 (10)
Percent of Control			102.4	100.4	101.0
Mean Cell Hemoglobin Concentration (g/dL)	SD 92	31.2 ± 0.1 (10)	31.4 ± 0.1 (10)	31.0 ± 0.1 (10)	31.1 ± 0.1 (10)
Percent of Control			100.5	99.3	99.5
Platelets (10 ³ /uL)	SD 92	691 ± 51 (9)	762 ± 45 (10)	797 ± 27 (10)	750 ± 54 (10)
Percent of Control			110	115	108
White Blood Cells (10 ³ /uL)	SD 92	10.51 ± 1.07 (10)	10.66 ± 0.63 (10)	10.73 ± 0.52 (10)	9.16 ± 0.47 (10)
Percent of Control			101.42	102.08	87.22
Neutrophils (10 ³ /uL)	SD 92	1.07 ± 0.11 (10)	1.14 ± 0.08 (10)	1.08 ± 0.08 (10)	0.84 ± 0.07 (10)
Percent of Control			106.55	101.40	78.67

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	Phase Day	Treatment Groups (mg/mL)			
		0	1	3	10
Lymphocytes (10 ³ /uL)	SD 92	8.89 ± 0.93 (10)	8.91 ± 0.54 (10)	9.04 ± 0.45 (10)	7.89 ± 0.41 (10)
Percent of Control			100.18	101.59	88.75
Total Lymphocytes (10 ³ /uL)	SD 92	8.96 ± 0.94 (10)	8.98 ± 0.54 (10)	9.10 ± 0.46 (10)	7.95 ± 0.41 (10)
Percent of Control			100.23	101.57	88.77
Monocytes (10 ³ /uL)	SD 92	0.30 ± 0.05 (10)	0.35 ± 0.03 (10)	0.35 ± 0.04 (10)	0.28 ± 0.05 (10)
Percent of Control			116.11	116.44	94.63
Basophils (10 ³ /uL)	SD 92	0.03 ± 0.00 (10)	0.03 ± 0.00 (10)	0.03 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control			96.15	107.69	50.00
Eosinophils (10 ³ /uL)	SD 92	0.16 ± 0.02 (10)	0.16 ± 0.02 (10)	0.17 ± 0.01 (10)	0.09 ± 0.02 (10)
Percent of Control			105.13	107.05	57.69
Large Unstained Cells (10 ³ /uL)	SD 92	0.07 ± 0.01 (10)	0.07 ± 0.01 (10)	0.07 ± 0.01 (10)	0.06 ± 0.01 (10)
Percent of Control			107.58	100.00	92.42

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Female

	Phase Day	Treatment Groups (mg/mL)			
		0	1	3	10
Hematocrit (%)	SD 92	45.1 ± 0.3 (10)	46.5 ± 0.7 (10)	46.7 ± 0.7 (10)	46.0 ± 0.8 (10)
Percent of Control			103.1	103.7	102.1
Manual Hematocrit (%)	SD 92	45.2 ± 0.4 (10)	46.1 ± 0.7 (10)	46.3 ± 0.8 (10)	45.4 ± 0.7 (10)
Percent of Control			102.0	102.4	100.4
Hemoglobin (g/dL)	SD 92	14.5 ± 0.1 (10)	14.7 ± 0.2 (10)	14.9 ± 0.2 (10)	14.7 ± 0.2 (10)
Percent of Control			101.2	102.4	100.9
Erythrocytes (10 ⁶ /uL)	SD 92	8.10 ± 0.06 (10)	8.34 ± 0.09 (10)	8.36 ± 0.12 (10)	8.18 ± 0.09 (10)
Percent of Control			102.95	103.25	101.06
Reticulocytes (10 ³ /uL)	SD 92	178.9 ± 12.1 (10)	213.3 ± 13.2 (10)	201.8 ± 16.9 (10)	204.6 ± 15.4 (10)
Percent of Control			119.2	112.8	114.4
Mean Cell Volume (fL)	SD 92	55.7 ± 0.5 (10)	55.8 ± 0.6 (10)	55.9 ± 0.5 (10)	56.2 ± 0.5 (10)
Percent of Control			100.1	100.4	100.9
Mean Cell Hemoglobin (pg)	SD 92	17.9 ± 0.2 (10)	17.7 ± 0.2 (10)	17.8 ± 0.1 (10)	17.9 ± 0.1 (10)
Percent of Control			98.4	99.4	99.9
Mean Cell Hemoglobin Concentration (g/dL)	SD 92	32.2 ± 0.2 (10)	31.7 ± 0.2 (10)	31.9 ± 0.2 (10)	31.9 ± 0.2 (10)
Percent of Control			98.4	99.1	99.1
Platelets (10 ³ /uL)	SD 92	808 ± 32 (9)	785 ± 29 (10)	801 ± 30 (10)	822 ± 66 (10)
Percent of Control			97	99	102
White Blood Cells (10 ³ /uL)	SD 92	8.74 ± 0.66 (10) **	6.06 ± 0.29 (10) **	7.11 ± 0.23 (10) **	5.75 ± 0.30 (10) **
Percent of Control			69.29	81.36	65.74
Neutrophils (10 ³ /uL)	SD 92	1.13 ± 0.15 (10) *	0.87 ± 0.12 (10)	0.80 ± 0.07 (10)	0.69 ± 0.07 (10) *
Percent of Control			77.30	70.57	61.35

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	Phase Day	Treatment Groups (mg/mL)			
		0	1	3	10
Lymphocytes (10 ³ /uL)	SD 92	7.01 ± 0.46 (10) **	4.87 ± 0.21 (10) **	5.94 ± 0.23 (10) **	4.73 ± 0.26 (10) **
Percent of Control			69.56	84.76	67.45
Total Lymphocytes (10 ³ /uL)	SD 92	7.06 ± 0.47 (10) **	4.91 ± 0.22 (10) **	5.98 ± 0.24 (10) **	4.76 ± 0.27 (10) **
Percent of Control			69.46	84.64	67.31
Monocytes (10 ³ /uL)	SD 92	0.29 ± 0.05 (10) *	0.17 ± 0.02 (10)	0.22 ± 0.02 (10)	0.17 ± 0.02 (10) *
Percent of Control			59.93	74.91	59.23
Basophils (10 ³ /uL)	SD 92	0.03 ± 0.01 (10) *	0.01 ± 0.00 (10) **	0.01 ± 0.00 (10)	0.01 ± 0.00 (10) **
Percent of Control			24.00	44.00	32.00
Eosinophils (10 ³ /uL)	SD 92	0.24 ± 0.03 (10) *	0.11 ± 0.02 (10) **	0.11 ± 0.01 (10) *	0.12 ± 0.01 (10) *
Percent of Control			43.93	46.86	50.21
Large Unstained Cells (10 ³ /uL)	SD 92	0.06 ± 0.01 (10) *	0.03 ± 0.00 (10) *	0.04 ± 0.00 (10)	0.03 ± 0.00 (10) **
Percent of Control			57.89	70.18	50.88

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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; 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 ****