

Experiment Number: C50050-02

Test Type: TOX

Route: Dosing in Water

Species/Strain: Mouse/B6C3F1/N

C Number:

Cage Range:

Date Range:

Reasons For Removal:

Removal Date Range:

Treatment Groups:

Study Gender:

PA43: Hematology Summary

Test Compound: 1-BUTYL-3-METHYLIMIDAZOLIUM CHLORIDE

CAS Number: 79917-90-1

C50050-02

All

All

All

All

All

Both

Date Report Requested: 06/15/2018

Time Report Requested: 15:49:17

Lab: NTP

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CAS Number: 79917-90-1

Date Report Requested: 06/15/2018

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Lab: NTP

Male

	Phase Day	Treatment Groups (mg/mL)			
		0	0.3	1	3
Hematocrit (%)	SD 92	48.1 ± 0.6 (10)	48.7 ± 0.6 (10)	47.8 ± 0.5 (10)	47.9 ± 0.4 (10)
Percent of Control			101.2	99.5	99.6
Manual Hematocrit (%)	SD 92	47.3 ± 0.6 (10)	48.3 ± 0.5 (10)	47.2 ± 0.5 (10)	47.2 ± 0.6 (10)
Percent of Control			102.1	99.8	99.8
Hemoglobin (g/dL)	SD 92	15.4 ± 0.2 (10)	15.7 ± 0.2 (10)	15.3 ± 0.1 (10)	15.3 ± 0.1 (10)
Percent of Control			101.9	99.0	99.3
Erythrocytes (10 ⁶ /uL)	SD 92	10.75 ± 0.12 (10)	10.97 ± 0.13 (10)	10.84 ± 0.10 (10)	10.90 ± 0.10 (10)
Percent of Control			102.08	100.87	101.41
Reticulocytes (10 ³ /uL)	SD 92	242.8 ± 5.4 (10)	250.2 ± 7.0 (10)	238.2 ± 6.9 (10)	246.2 ± 7.3 (10)
Percent of Control			103.1	98.1	101.4
Mean Cell Volume (fL)	SD 92	44.8 ± 0.2 (10) **	44.4 ± 0.2 (10)	44.2 ± 0.2 (10) *	44.0 ± 0.1 (10) **
Percent of Control			99.1	98.7	98.3
Mean Cell Hemoglobin (pg)	SD 92	14.4 ± 0.1 (10) **	14.3 ± 0.1 (10)	14.1 ± 0.0 (10) **	14.1 ± 0.0 (10) **
Percent of Control			99.7	98.2	97.8
Mean Cell Hemoglobin Concentration (g/dL)	SD 92	32.1 ± 0.2 (10)	32.3 ± 0.1 (10)	31.9 ± 0.1 (10)	32.0 ± 0.1 (10)
Percent of Control			100.6	99.5	99.6
Platelets (10 ³ /uL)	SD 92	886 ± 31 (10)	946 ± 57 (10)	950 ± 36 (10)	846 ± 32 (10)
Percent of Control			107	107	95
White Blood Cells (10 ³ /uL)	SD 92	3.18 ± 0.35 (10)	2.85 ± 0.26 (10)	3.48 ± 0.20 (10)	3.15 ± 0.34 (10)
Percent of Control			89.53	109.40	98.96
Neutrophils (10 ³ /uL)	SD 92	0.54 ± 0.06 (10)	0.41 ± 0.05 (10)	0.63 ± 0.08 (10)	0.45 ± 0.08 (10)
Percent of Control			77.09	117.88	83.99

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Lab: NTP

Male

	Phase Day	Treatment Groups (mg/mL)			
		0	0.3	1	3
Lymphocytes (10 ³ /uL)	SD 92	2.52 ± 0.29 (10)	2.35 ± 0.22 (10)	2.70 ± 0.16 (10)	2.56 ± 0.28 (10)
Percent of Control			93.10	106.90	101.59
Total Lymphocytes (10 ³ /uL)	SD 92	2.53 ± 0.30 (10)	2.36 ± 0.22 (10)	2.71 ± 0.16 (10)	2.57 ± 0.28 (10)
Percent of Control			93.20	107.08	101.70
Monocytes (10 ³ /uL)	SD 92	0.06 ± 0.01 (10)	0.06 ± 0.01 (10)	0.08 ± 0.01 (10)	0.07 ± 0.01 (10)
Percent of Control			88.71	129.03	108.06
Basophils (10 ³ /uL)	SD 92	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)
Eosinophils (10 ³ /uL)	SD 92	0.05 ± 0.02 (10)	0.03 ± 0.01 (10)	0.06 ± 0.01 (10)	0.06 ± 0.01 (10)
Percent of Control			47.17	107.55	115.09
Large Unstained Cells (10 ³ /uL)	SD 92	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control			133.33	183.33	150.00

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Female

	Phase Day	Treatment Groups (mg/mL)			
		0	0.3	1	3
Hematocrit (%)	SD 92	47.2 ± 0.8 (10)	48.9 ± 0.5 (10)	49.1 ± 0.9 (10)	46.9 ± 0.7 (10)
Percent of Control			103.6	103.9	99.2
Manual Hematocrit (%)	SD 92	49.3 ± 0.7 (10)	49.2 ± 0.5 (10)	50.4 ± 0.7 (10)	47.8 ± 0.8 (10)
Percent of Control			99.8	102.2	97.0
Hemoglobin (g/dL)	SD 92	15.3 ± 0.2 (10)	15.9 ± 0.1 (10)	15.8 ± 0.2 (10)	15.1 ± 0.2 (10)
Percent of Control			104.0	103.7	99.2
Erythrocytes (10 ⁶ /uL)	SD 92	10.57 ± 0.16 (10)	11.02 ± 0.10 (10)	10.90 ± 0.17 (10)	10.45 ± 0.14 (10)
Percent of Control			104.22	103.08	98.80
Reticulocytes (10 ³ /uL)	SD 92	274.4 ± 25.9 (10)	303.6 ± 22.0 (10)	253.5 ± 11.0 (10)	264.4 ± 15.8 (10)
Percent of Control			110.7	92.4	96.4
Mean Cell Volume (fL)	SD 92	44.7 ± 0.2 (10)	44.4 ± 0.1 (10)	45.0 ± 0.2 (10)	44.9 ± 0.3 (10)
Percent of Control			99.4	100.7	100.4
Mean Cell Hemoglobin (pg)	SD 92	14.4 ± 0.1 (10)	14.4 ± 0.1 (10)	14.5 ± 0.1 (10)	14.5 ± 0.0 (10)
Percent of Control			99.6	100.3	100.4
Mean Cell Hemoglobin Concentration (g/dL)	SD 92	32.3 ± 0.2 (10)	32.4 ± 0.1 (10)	32.2 ± 0.2 (10)	32.3 ± 0.1 (10)
Percent of Control			100.2	99.7	100.0
Platelets (10 ³ /uL)	SD 92	750 ± 47 (10)	605 ± 32 (10) *	645 ± 32 (10)	635 ± 49 (10)
Percent of Control			81	86	85
White Blood Cells (10 ³ /uL)	SD 92	2.53 ± 0.20 (10)	2.62 ± 0.19 (10)	2.38 ± 0.16 (10)	2.59 ± 0.12 (10)
Percent of Control			103.72	93.99	102.49
Neutrophils (10 ³ /uL)	SD 92	0.31 ± 0.03 (10)	0.35 ± 0.05 (10)	0.32 ± 0.05 (10)	0.28 ± 0.05 (10)
Percent of Control			113.36	102.93	91.86

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Female

	Phase Day	Treatment Groups (mg/mL)			
		0	0.3	1	3
Lymphocytes (10 ³ /uL)	SD 92	2.09 ± 0.18 (10)	2.15 ± 0.18 (10)	1.94 ± 0.15 (10)	2.20 ± 0.09 (10)
Percent of Control			102.77	92.64	105.16
Total Lymphocytes (10 ³ /uL)	SD 92	2.10 ± 0.18 (10)	2.16 ± 0.18 (10)	1.94 ± 0.15 (10)	2.21 ± 0.09 (10)
Percent of Control			102.81	92.43	105.09
Monocytes (10 ³ /uL)	SD 92	0.05 ± 0.01 (10)	0.04 ± 0.01 (10)	0.05 ± 0.01 (10)	0.06 ± 0.01 (10)
Percent of Control			75.93	96.30	109.26
Basophils (10 ³ /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			33.33	0.00	0.00
Eosinophils (10 ³ /uL)	SD 92	0.06 ± 0.01 (10)	0.07 ± 0.01 (10)	0.07 ± 0.02 (10)	0.05 ± 0.01 (10)
Percent of Control			117.46	104.76	71.43
Large Unstained Cells (10 ³ /uL)	SD 92	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control			110.00	50.00	90.00

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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 ****