

Study Number: C05052-02

Test Type: TOX

Route: Dosing in Water

Species/Strain: Mouse/B6C3F1/N

C Number:

Study Gender:

PWG Approval Date

PA43: Hematology Summary

Test Compound: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

C05052-02

Both

See web page for date of PWG Approval

Date Report Requested: 04/21/2020

Time Report Requested: 14:13:05

Lab: NTP

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Male

	Phase Day	Treatment Groups (mg/mL)			
		0	1	3	6
Hematocrit (%)	SD 92	50.4 ± 1.0 (10)	51.5 ± 1.0 (10)	50.9 ± 0.7 (10)	51.9 ± 0.9 (10)
Percent of Control			102.0	100.8	102.9
Manual Hematocrit (%)	SD 92	49.9 ± 0.4 (10)	50.3 ± 0.7 (10)	49.8 ± 0.8 (10)	50.4 ± 0.4 (10)
Percent of Control			100.8	99.8	101.0
Hemoglobin (g/dL)	SD 92	15.7 ± 0.1 (10)	15.7 ± 0.2 (10)	15.7 ± 0.2 (10)	15.7 ± 0.1 (10)
Percent of Control			99.6	99.7	99.9
Erythrocytes (10 ⁶ /uL)	SD 92	10.90 ± 0.11 (10)	10.92 ± 0.12 (10)	10.91 ± 0.12 (10)	11.06 ± 0.09 (10)
Percent of Control			100.1	100.0	101.4
Reticulocytes (10 ³ /uL)	SD 92	262.4 ± 3.8 (10)	246.9 ± 3.5 (10)	254.9 ± 6.5 (10)	261.6 ± 6.2 (10)
Percent of Control			94.1	97.1	99.7
Mean Cell Volume (fL)	SD 92	46.2 ± 0.7 (10)	47.2 ± 0.8 (10)	46.7 ± 0.8 (10)	46.9 ± 0.8 (10)
Percent of Control			102.0	101.0	101.6
Mean Cell Hemoglobin (pg)	SD 92	14.4 ± 0.0 (10) *	14.3 ± 0.1 (10)	14.4 ± 0.1 (10)	14.2 ± 0.1 (10) *
Percent of Control			99.4	99.7	98.5
Mean Cell Hemoglobin Concentration (g/dL)	SD 92	31.2 ± 0.4 (10)	30.5 ± 0.5 (10)	30.9 ± 0.5 (10)	30.4 ± 0.5 (10)
Percent of Control			97.7	98.8	97.2
Platelets (10 ³ /uL)	SD 92	873 ± 20 (10)	916 ± 31 (10)	802 ± 29 (10)	937 ± 30 (10)
Percent of Control			105.0	91.9	107.4
White Blood Cells (10 ³ /uL)	SD 92	4.38 ± 0.28 (10)	4.09 ± 0.12 (10)	3.86 ± 0.33 (10)	3.62 ± 0.34 (10)
Percent of Control			93.6	88.2	82.8
Neutrophils (10 ³ /uL)	SD 92	0.68 ± 0.05 (10) **	0.57 ± 0.04 (10)	0.52 ± 0.04 (10) *	0.43 ± 0.05 (10) **
Percent of Control			83.9	77.1	63.5

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Male

	Phase Day	Treatment Groups (mg/mL)			
		0	1	3	6
Lymphocytes (10 ³ /uL) Percent of Control	SD 92	3.45 ± 0.23 (10)	3.32 ± 0.09 (10) 96.1	3.13 ± 0.27 (10) 90.6	3.02 ± 0.28 (10) 87.6
Total Lymphocytes (10 ³ /uL) Percent of Control	SD 92	3.50 ± 0.24 (10)	3.35 ± 0.09 (10) 95.9	3.16 ± 0.27 (10) 90.5	3.05 ± 0.29 (10) 87.3
Monocytes (10 ³ /uL) Percent of Control	SD 92	0.13 ± 0.01 (10) *	0.11 ± 0.01 (10) 82.7	0.10 ± 0.01 (10) 74.4	0.09 ± 0.01 (10) 66.9
Basophils (10 ³ /uL) Percent of Control	SD 92	0.00 ± 0.00 (10)	0.00 ± 0.00 (10) 25.0	0.00 ± 0.00 (10) 75.0	0.00 ± 0.00 (10) 25.0
Eosinophils (10 ³ /uL) Percent of Control	SD 92	0.07 ± 0.01 (10) *	0.06 ± 0.01 (10) 94.1	0.07 ± 0.01 (10) 102.9	0.05 ± 0.01 (10) * 66.2
Large Unstained Cells (10 ³ /uL) Percent of Control	SD 92	0.04 ± 0.01 (10) *	0.03 ± 0.00 (10) 78.6	0.03 ± 0.01 (10) 81.0	0.03 ± 0.01 (10) 66.7

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Female

	Phase Day	Treatment Groups (mg/mL)			
		0	1	3	6
Hematocrit (%)	SD 92	48.9 ± 1.1 (10)	49.8 ± 1.1 (10)	49.2 ± 1.4 (10)	50.2 ± 1.0 (9)
Percent of Control			101.7	100.6	102.5
Manual Hematocrit (%)	SD 92	49.3 ± 1.0 (10)	49.8 ± 1.1 (10)	49.0 ± 1.1 (10)	49.8 ± 0.7 (9)
Percent of Control			101.0	99.4	101.0
Hemoglobin (g/dL)	SD 92	16.3 ± 0.3 (10)	16.4 ± 0.4 (10)	16.3 ± 0.5 (10)	16.6 ± 0.4 (9)
Percent of Control			100.7	99.6	101.5
Erythrocytes (10 ⁶ /uL)	SD 92	11.09 ± 0.22 (10)	11.21 ± 0.23 (10)	11.03 ± 0.28 (10)	11.42 ± 0.23 (9)
Percent of Control			101.0	99.4	103.0
Reticulocytes (10 ³ /uL)	SD 92	261.4 ± 16.3 (10)	269.9 ± 15.3 (10)	262.0 ± 18.5 (10)	271.4 ± 9.7 (9)
Percent of Control			103.3	100.2	103.8
Mean Cell Volume (fL)	SD 92	44.1 ± 0.2 (10)	44.4 ± 0.2 (10)	44.6 ± 0.3 (10)	43.9 ± 0.3 (9)
Percent of Control			100.5	101.1	99.6
Mean Cell Hemoglobin (pg)	SD 92	14.7 ± 0.1 (10)	14.7 ± 0.1 (10)	14.7 ± 0.1 (10)	14.5 ± 0.1 (9)
Percent of Control			99.8	100.1	98.8
Mean Cell Hemoglobin Concentration (g/dL)	SD 92	33.3 ± 0.2 (10)	33.1 ± 0.1 (10)	33.1 ± 0.2 (10)	33.0 ± 0.2 (9)
Percent of Control			99.3	99.1	99.1
Platelets (10 ³ /uL)	SD 92	559 ± 33 (10)	558 ± 50 (10)	595 ± 46 (10)	526 ± 45 (9)
Percent of Control			99.8	106.3	93.9
White Blood Cells (10 ³ /uL)	SD 92	2.85 ± 0.39 (10)	2.53 ± 0.25 (10)	2.91 ± 0.27 (10)	3.11 ± 0.14 (9)
Percent of Control			88.9	102.2	109.1
Neutrophils (10 ³ /uL)	SD 92	0.49 ± 0.12 (10)	0.35 ± 0.05 (10)	0.35 ± 0.05 (10)	0.39 ± 0.02 (9)
Percent of Control			69.8	71.3	78.9

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Female

	Phase Day	Treatment Groups (mg/mL)			
		0	1	3	6
Lymphocytes (10 ³ /uL)	SD 92	2.21 ± 0.27 (10)	2.08 ± 0.21 (10)	2.44 ± 0.23 (10)	2.59 ± 0.14 (9)
Percent of Control			94.0	110.1	117.3
Total Lymphocytes (10 ³ /uL)	SD 92	2.23 ± 0.27 (10)	2.10 ± 0.21 (10)	2.46 ± 0.23 (10)	2.62 ± 0.14 (9)
Percent of Control			94.1	110.4	117.5
Monocytes (10 ³ /uL)	SD 92	0.07 ± 0.01 (10)	0.05 ± 0.01 (10)	0.07 ± 0.02 (10)	0.05 ± 0.01 (9)
Percent of Control			70.6	98.5	75.2
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 (9)
Percent of Control			0.0	66.7	74.1
Eosinophils (10 ³ /uL)	SD 92	0.06 ± 0.01 (10)	0.04 ± 0.01 (10)	0.03 ± 0.00 (10)	0.05 ± 0.01 (9)
Percent of Control			70.2	56.1	81.9
Large Unstained Cells (10 ³ /uL)	SD 92	0.02 ± 0.00 (10)	0.02 ± 0.00 (10)	0.02 ± 0.00 (10)	0.02 ± 0.00 (9)
Percent of Control			105.9	141.2	137.3

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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

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 ****