

Experiment Number: C20712-02

Test Type: TOX

Route: Dosing in Feed

Species/Strain: Mouse/B6C3F1/N

PA43: Hematology Summary

Test Compound: Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 05/11/2018

Time Report Requested: 10:44:16

Lab: NTP

C Number: C20712-02

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/kg)			
		0	1250	2500	5000
Hematocrit (%)	SD 96	50.5 ± 1.1 (10) *	49.0 ± 0.7 (10)	49.4 ± 1.2 (10)	48.1 ± 0.9 (9)
Percent of Control			97.2	97.9	95.3
Manual Hematocrit (%)	SD 96	49.9 ± 0.7 (9) **	49.9 ± 0.4 (10)	49.5 ± 0.6 (10)	49.5 ± 0.5 (10)
Percent of Control			100.0	99.2	99.2
Hemoglobin (g/dL)	SD 96	15.7 ± 0.2 (10) **	15.6 ± 0.2 (10)	15.6 ± 0.2 (10)	15.4 ± 0.2 (9)
Percent of Control			99.0	98.9	97.8
Erythrocytes (10 ⁶ /uL)	SD 96	10.47 ± 0.12 (10)	10.46 ± 0.12 (10)	10.38 ± 0.16 (10)	10.32 ± 0.17 (9)
Percent of Control			99.90	99.18	98.63
Reticulocytes (10 ³ /uL)	SD 96	239.6 ± 5.6 (10)	233.1 ± 4.4 (10)	244.9 ± 5.5 (10)	228.9 ± 3.5 (9)
Percent of Control			97.3	102.2	95.6
Mean Cell Volume (fL)	SD 96	48.2 ± 0.7 (10) *	47.0 ± 0.8 (10)	47.6 ± 0.9 (10)	46.6 ± 0.5 (9)
Percent of Control			97.5	98.8	96.7
Mean Cell Hemoglobin (pg)	SD 96	15.0 ± 0.1 (10) **	14.9 ± 0.1 (10)	15.0 ± 0.1 (10)	14.9 ± 0.1 (9)
Percent of Control			99.0	99.7	99.2
Mean Cell Hemoglobin Concentration (g/dL)	SD 96	31.3 ± 0.5 (10)	31.8 ± 0.5 (10)	31.6 ± 0.5 (10)	32.1 ± 0.3 (9)
Percent of Control			101.6	101.0	102.5
Platelets (10 ³ /uL)	SD 96	933 ± 54 (10)	914 ± 37 (10)	809 ± 57 (10)	865 ± 91 (9)
Percent of Control			98	87	93
White Blood Cells (10 ³ /uL)	SD 96	6.63 ± 0.40 (10) *	6.52 ± 0.48 (10)	6.04 ± 0.52 (10)	6.83 ± 0.81 (9)
Percent of Control			98.40	91.04	103.00
Neutrophils (10 ³ /uL)	SD 96	1.27 ± 0.12 (10)	1.20 ± 0.12 (10)	1.25 ± 0.11 (10)	1.32 ± 0.17 (9)
Percent of Control			94.65	98.51	104.03

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Male

	Phase Day	Treatment Groups (mg/kg)			
		0	1250	2500	5000
Total Lymphocytes (10 ³ /uL)	SD 96	5.13 ± 0.31 (10) *	5.12 ± 0.38 (10)	4.54 ± 0.44 (10)	5.31 ± 0.68 (9)
Percent of Control			99.77	88.61	103.59
Monocytes (10 ³ /uL)	SD 96	0.10 ± 0.03 (10) *	0.10 ± 0.03 (10)	0.10 ± 0.01 (10)	0.08 ± 0.02 (9)
Percent of Control			100.00	99.03	75.51
Basophils (10 ³ /uL)	SD 96	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.00 ± 0.00 (9)
Percent of Control			50.00	58.33	37.04
Eosinophils (10 ³ /uL)	SD 96	0.12 ± 0.03 (10)	0.10 ± 0.04 (10)	0.13 ± 0.05 (10)	0.11 ± 0.04 (9)
Percent of Control			78.51	109.92	92.75

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Male

	Phase Day	Treatment Groups (mg/kg)	
		10000	20000
Hematocrit (%)	SD 96	47.8 ± 0.7 (9)	48.0 ± 0.7 (10)
Percent of Control		94.7	95.2
Manual Hematocrit (%)	SD 96	48.6 ± 0.5 (9)	48.0 ± 0.8 (10)
Percent of Control		97.3	96.2
Hemoglobin (g/dL)	SD 96	15.2 ± 0.2 (9)	15.1 ± 0.2 (10) *
Percent of Control		96.9	95.6
Erythrocytes (10 ⁶ /uL)	SD 96	10.25 ± 0.16 (9)	10.29 ± 0.15 (10)
Percent of Control		97.96	98.26
Reticulocytes (10 ³ /uL)	SD 96	232.5 ± 4.0 (9)	252.0 ± 8.8 (10)
Percent of Control		97.1	105.2
Mean Cell Volume (fL)	SD 96	46.7 ± 0.8 (9)	46.7 ± 0.7 (10)
Percent of Control		96.9	97.1
Mean Cell Hemoglobin (pg)	SD 96	14.9 ± 0.1 (9) *	14.6 ± 0.1 (10) **
Percent of Control		98.9	97.2
Mean Cell Hemoglobin Concentration (g/dL)	SD 96	31.9 ± 0.4 (9)	31.4 ± 0.5 (10)
Percent of Control		102.1	100.3
Platelets (10 ³ /uL)	SD 96	939 ± 49 (9)	1028 ± 41 (10)
Percent of Control		101	110
White Blood Cells (10 ³ /uL)	SD 96	5.94 ± 0.94 (9)	3.46 ± 0.56 (10) *
Percent of Control		89.64	52.20
Neutrophils (10 ³ /uL)	SD 96	0.96 ± 0.14 (9)	0.89 ± 0.14 (10)
Percent of Control		75.36	70.02

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Male

	Phase Day	Treatment Groups (mg/kg)	
		10000	20000
Total Lymphocytes (10 ³ /uL)	SD 96	4.80 ± 0.77 (9)	2.50 ± 0.43 (10) *
Percent of Control		93.56	48.72
Monocytes (10 ³ /uL)	SD 96	0.09 ± 0.01 (9)	0.03 ± 0.01 (10)
Percent of Control		85.22	30.10
Basophils (10 ³ /uL)	SD 96	0.01 ± 0.00 (9)	0.00 ± 0.00 (10)
Percent of Control		83.33	16.67
Eosinophils (10 ³ /uL)	SD 96	0.09 ± 0.03 (9)	0.04 ± 0.02 (10)
Percent of Control		76.22	33.06

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Female

	Phase Day	Treatment Groups (mg/kg)			
		0	1250	2500	5000
Hematocrit (%)	SD 96	47.7 ± 0.5 (10)	49.7 ± 0.6 (9)	49.8 ± 1.1 (10)	46.9 ± 0.5 (10)
Percent of Control			104.1	104.3	98.3
Manual Hematocrit (%)	SD 96	49.2 ± 0.6 (10)	50.8 ± 0.7 (9)	51.3 ± 0.8 (9)	50.2 ± 0.9 (10)
Percent of Control			103.2	104.3	102.0
Hemoglobin (g/dL)	SD 96	15.7 ± 0.1 (10)	16.5 ± 0.2 (9)	16.5 ± 0.4 (10)	15.4 ± 0.2 (10)
Percent of Control			105.1	104.8	98.2
Erythrocytes (10 ⁶ /uL)	SD 96	10.22 ± 0.10 (10)	10.79 ± 0.13 (9)	10.59 ± 0.23 (10)	10.02 ± 0.14 (10)
Percent of Control			105.54	103.62	97.99
Reticulocytes (10 ³ /uL)	SD 96	218.1 ± 9.9 (10) **	217.4 ± 9.1 (9)	233.3 ± 21.6 (10)	245.9 ± 10.8 (10)
Percent of Control			99.7	107.0	112.7
Mean Cell Volume (fL)	SD 96	46.7 ± 0.1 (10) *	46.1 ± 0.3 (9)	47.0 ± 0.5 (10)	46.9 ± 0.2 (10)
Percent of Control			98.6	100.7	100.4
Mean Cell Hemoglobin (pg)	SD 96	15.4 ± 0.1 (10)	15.3 ± 0.1 (9)	15.5 ± 0.1 (10)	15.4 ± 0.1 (10)
Percent of Control			99.5	100.9	100.1
Mean Cell Hemoglobin Concentration (g/dL)	SD 96	32.9 ± 0.1 (10)	33.2 ± 0.2 (9)	33.0 ± 0.4 (10)	32.8 ± 0.1 (10)
Percent of Control			100.7	100.3	99.6
Platelets (10 ³ /uL)	SD 96	897 ± 54 (10)	1088 ± 62 (9)	841 ± 67 (10)	889 ± 52 (10)
Percent of Control			121	94	99
White Blood Cells (10 ³ /uL)	SD 96	5.64 ± 0.38 (10)	5.34 ± 0.56 (9)	4.19 ± 0.34 (10) *	4.83 ± 0.35 (10)
Percent of Control			94.74	74.23	85.69
Neutrophils (10 ³ /uL)	SD 96	0.73 ± 0.06 (10)	1.06 ± 0.11 (9)	0.59 ± 0.08 (10)	0.73 ± 0.09 (10)
Percent of Control			145.91	80.91	99.59

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	Phase Day	Treatment Groups (mg/kg)			
		0	1250	2500	5000
Total Lymphocytes (10 ³ /uL)	SD 96	4.76 ± 0.34 (10)	4.08 ± 0.51 (9)	3.44 ± 0.27 (10) *	3.95 ± 0.30 (10)
Percent of Control			85.78	72.24	83.04
Monocytes (10 ³ /uL)	SD 96	0.06 ± 0.02 (10)	0.10 ± 0.01 (9)	0.08 ± 0.02 (10)	0.07 ± 0.02 (10)
Percent of Control			167.58	127.87	114.75
Basophils (10 ³ /uL)	SD 96	0.01 ± 0.00 (10)	0.01 ± 0.00 (9)	0.01 ± 0.00 (10)	0.00 ± 0.00 (10)
Percent of Control			142.86	71.43	57.14
Eosinophils (10 ³ /uL)	SD 96	0.08 ± 0.02 (10)	0.08 ± 0.02 (9)	0.08 ± 0.01 (10)	0.08 ± 0.03 (10)
Percent of Control			102.88	96.30	102.47

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Female

	Phase Day	Treatment Groups (mg/kg)	
		10000	20000
Hematocrit (%)	SD 96	47.7 ± 0.6 (10)	47.2 ± 0.4 (10)
Percent of Control		99.9	98.8
Manual Hematocrit (%)	SD 96	49.2 ± 0.7 (10)	48.6 ± 0.6 (9)
Percent of Control		100.0	98.7
Hemoglobin (g/dL)	SD 96	15.9 ± 0.2 (10)	15.5 ± 0.1 (10)
Percent of Control		101.2	99.0
Erythrocytes (10 ⁶ /uL)	SD 96	10.31 ± 0.14 (10)	10.25 ± 0.07 (10)
Percent of Control		100.84	100.25
Reticulocytes (10 ³ /uL)	SD 96	250.0 ± 14.3 (10)	255.7 ± 8.6 (10) *
Percent of Control		114.6	117.2
Mean Cell Volume (fL)	SD 96	46.3 ± 0.1 (10)	46.0 ± 0.2 (10) *
Percent of Control		99.1	98.5
Mean Cell Hemoglobin (pg)	SD 96	15.4 ± 0.1 (10)	15.2 ± 0.1 (10)
Percent of Control		100.3	98.6
Mean Cell Hemoglobin Concentration (g/dL)	SD 96	33.3 ± 0.1 (10)	33.0 ± 0.2 (10)
Percent of Control		101.1	100.0
Platelets (10 ³ /uL)	SD 96	784 ± 75 (10)	876 ± 58 (10)
Percent of Control		87	98
White Blood Cells (10 ³ /uL)	SD 96	5.61 ± 0.43 (10)	4.57 ± 0.35 (10)
Percent of Control		99.50	80.95
Neutrophils (10 ³ /uL)	SD 96	0.78 ± 0.12 (10)	0.59 ± 0.09 (10)
Percent of Control		106.73	81.18

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Female

	Phase Day	Treatment Groups (mg/kg)	
		10000	20000
Total Lymphocytes (10 ³ /uL)	SD 96	4.74 ± 0.37 (10)	3.84 ± 0.27 (10)
Percent of Control		99.50	80.67
Monocytes (10 ³ /uL)	SD 96	0.03 ± 0.01 (10)	0.06 ± 0.02 (10)
Percent of Control		55.74	95.08
Basophils (10 ³ /uL)	SD 96	0.00 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control		42.86	100.00
Eosinophils (10 ³ /uL)	SD 96	0.06 ± 0.02 (10)	0.07 ± 0.03 (10)
Percent of Control		74.07	85.19

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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 ****