

Study Number: MOG003B

Test Type: MOG

Route: Dosing in Feed

Species/Strain: Rat/Sprague-Dawley

C Number:

Study Gender:

PWG Approval Date

PA43: Hematology Summary

Test Compound: 2-Ethylhexyl p-Methoxycinnamate

CAS Number: 5466-77-3

MOG003B

Both

See web page for date of PWG Approval

Date Report Requested: 01/14/2020

Time Report Requested: 11:05:37

Lab: RTI

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F1 Male: Subchronic Male

	Phase Day	Treatment Groups (ppm)			
		0	1000	3000	6000
Hematocrit (%)	PND 110 - 112	55.9 ± 0.5 (10)	58.0 ± 0.9 (10)	56.4 ± 0.8 (9)	56.8 ± 0.4 (10)
Percent of Control			103.7	101.0	101.6
Hemoglobin (g/dL)	PND 110 - 112	16.4 ± 0.1 (10)	17.0 ± 0.3 (10)	16.5 ± 0.2 (9)	16.5 ± 0.1 (10)
Percent of Control			103.8	100.6	100.5
Erythrocytes (10 ⁶ /uL)	PND 110 - 112	9.60 ± 0.12 (10)	10.00 ± 0.15 (10)	9.68 ± 0.13 (9)	9.81 ± 0.09 (10)
Percent of Control			104.1	100.8	102.1
Reticulocytes (10 ³ /uL)	PND 110 - 112	172.9 ± 8.4 (10)	181.4 ± 5.8 (10)	185.3 ± 8.4 (9)	185.6 ± 8.4 (10)
Percent of Control			104.9	107.2	107.4
Reticulocyte Percentage	PND 110 - 112	1.8 ± 0.1 (10)	1.8 ± 0.1 (10)	1.9 ± 0.1 (9)	1.9 ± 0.1 (10)
Percent of Control			100.9	106.1	104.8
Mean Cell Volume (fL)	PND 110 - 112	58.2 ± 0.3 (10)	58.0 ± 0.2 (10)	58.3 ± 0.3 (9)	57.9 ± 0.4 (10)
Percent of Control			99.6	100.2	99.5
Mean Cell Hemoglobin (pg)	PND 110 - 112	17.1 ± 0.1 (10)	17.0 ± 0.1 (10)	17.0 ± 0.1 (9)	16.8 ± 0.1 (10)
Percent of Control			99.6	99.7	98.5
Mean Cell Hemoglobin Concentration (g/dL)	PND 110 - 112	29.4 ± 0.1 (10) *	29.4 ± 0.1 (10)	29.2 ± 0.1 (9)	29.0 ± 0.1 (10)
Percent of Control			100.1	99.5	98.9
Platelets (10 ³ /uL)	PND 110 - 112	630 ± 26 (10)	745 ± 73 (10)	607 ± 31 (9)	626 ± 31 (10)
Percent of Control			118.2	96.3	99.4
White Blood Cells (10 ³ /uL)	PND 110 - 112	11.84 ± 0.68 (10)	11.78 ± 0.75 (10)	12.61 ± 0.83 (9)	9.27 ± 1.08 (10)
Percent of Control			99.5	106.5	78.3
Neutrophils (10 ³ /uL)	PND 110 - 112	1.14 ± 0.10 (10)	1.20 ± 0.06 (10)	1.61 ± 0.44 (9)	0.90 ± 0.11 (10)
Percent of Control			105.4	141.6	79.2

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F1 Male: Subchronic Male

	Phase Day	Treatment Groups (ppm)			
		0	1000	3000	6000
Lymphocytes (10 ³ /uL)	PND 110 - 112	9.82 ± 0.60 (10)	9.81 ± 0.66 (10)	10.22 ± 0.92 (9)	7.77 ± 0.90 (10)
Percent of Control			99.9	104.1	79.1
Monocytes (10 ³ /uL)	PND 110 - 112	0.30 ± 0.05 (10)	0.25 ± 0.03 (10)	0.27 ± 0.02 (9)	0.19 ± 0.03 (10)
Percent of Control			83.8	88.7	62.7
Basophils (10 ³ /uL)	PND 110 - 112	0.27 ± 0.04 (10)	0.27 ± 0.04 (10)	0.23 ± 0.03 (9)	0.24 ± 0.06 (10)
Percent of Control			101.9	87.2	90.3
Eosinophils (10 ³ /uL)	PND 110 - 112	0.21 ± 0.04 (10)	0.16 ± 0.02 (10)	0.21 ± 0.03 (9)	0.14 ± 0.02 (10)
Percent of Control			74.1	101.2	66.0
Large Unstained Cells (10 ³ /uL)	PND 110 - 112	0.09 ± 0.02 (10)	0.09 ± 0.01 (10)	0.09 ± 0.01 (9)	0.09 ± 0.02 (10)
Percent of Control			93.5	100.2	95.7
Neutrophil Percentage	PND 110 - 112	9.7 ± 0.8 (10)	10.5 ± 0.6 (10)	13.3 ± 3.9 (9)	9.8 ± 0.3 (10)
Percent of Control			107.4	136.2	100.1
Lymphocyte Percentage	PND 110 - 112	83.0 ± 1.3 (10)	83.1 ± 0.7 (10)	80.3 ± 3.8 (9)	83.8 ± 0.3 (10)
Percent of Control			100.2	96.8	101.1
Monocyte Percentage	PND 110 - 112	2.5 ± 0.3 (10)	2.1 ± 0.2 (10)	2.1 ± 0.2 (9)	1.9 ± 0.2 (10)
Percent of Control			85.0	86.8	78.1
Basophil Percentage	PND 110 - 112	2.2 ± 0.3 (10)	2.3 ± 0.3 (10)	1.8 ± 0.1 (9)	2.4 ± 0.4 (10)
Percent of Control			102.2	80.9	106.7
Eosinophil Percentage	PND 110 - 112	1.9 ± 0.4 (10)	1.3 ± 0.1 (10)	1.7 ± 0.3 (9)	1.7 ± 0.3 (10)
Percent of Control			71.0	92.6	91.9
Large Unstained Cell Percentage	PND 110 - 112	0.6 ± 0.0 (10)	0.7 ± 0.1 (10)	0.7 ± 0.1 (9)	0.9 ± 0.1 (10)
Percent of Control			114.1	112.8	142.2

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F1 Female: Subchronic Female

	Phase Day	Treatment Groups (ppm)			
		0	1000	3000	6000
Hematocrit (%)	PND 111 - 113	51.7 ± 0.6 (9)	51.3 ± 0.6 (10)	51.4 ± 0.5 (10)	51.4 ± 0.6 (10)
Percent of Control			99.2	99.3	99.4
Hemoglobin (g/dL)	PND 111 - 113	15.6 ± 0.2 (9)	15.6 ± 0.2 (10)	15.5 ± 0.1 (10)	15.6 ± 0.2 (10)
Percent of Control			100.0	99.5	99.9
Erythrocytes (10 ⁶ /uL)	PND 111 - 113	8.75 ± 0.11 (9)	8.66 ± 0.11 (10)	8.78 ± 0.12 (10)	8.61 ± 0.07 (10)
Percent of Control			99.0	100.4	98.4
Reticulocytes (10 ³ /uL)	PND 111 - 113	178.7 ± 14.1 (9)	166.1 ± 13.5 (10)	171.0 ± 21.1 (10)	185.1 ± 10.1 (10)
Percent of Control			92.9	95.7	103.6
Reticulocyte Percentage	PND 111 - 113	2.0 ± 0.2 (9)	1.9 ± 0.2 (10)	2.0 ± 0.2 (10)	2.2 ± 0.1 (10)
Percent of Control			96.0	97.4	107.6
Mean Cell Volume (fL)	PND 111 - 113	59.2 ± 0.5 (9)	59.3 ± 0.5 (10)	58.5 ± 0.4 (10)	59.8 ± 0.5 (10)
Percent of Control			100.3	98.9	101.1
Mean Cell Hemoglobin (pg)	PND 111 - 113	17.9 ± 0.1 (9)	18.1 ± 0.1 (10)	17.7 ± 0.2 (10)	18.2 ± 0.1 (10)
Percent of Control			101.1	99.3	101.7
Mean Cell Hemoglobin Concentration (g/dL)	PND 111 - 113	30.2 ± 0.1 (9)	30.4 ± 0.1 (10)	30.3 ± 0.2 (10)	30.4 ± 0.1 (10)
Percent of Control			100.9	100.4	100.6
Platelets (10 ³ /uL)	PND 111 - 113	832 ± 73 (9)	825 ± 61 (10)	770 ± 37 (10)	750 ± 39 (10)
Percent of Control			99.2	92.6	90.2
White Blood Cells (10 ³ /uL)	PND 111 - 113	8.60 ± 0.63 (9)	10.69 ± 1.44 (10)	7.86 ± 0.49 (10)	8.99 ± 0.40 (10)
Percent of Control			124.3	91.4	104.5
Neutrophils (10 ³ /uL)	PND 111 - 113	0.68 ± 0.04 (9)	1.58 ± 0.72 (10) *	0.73 ± 0.06 (10)	0.80 ± 0.04 (10)
Percent of Control			230.4	106.2	116.4

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F1 Female: Subchronic Female

	Phase Day	Treatment Groups (ppm)			
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Lymphocytes (10 ³ /uL)	PND 111 - 113	7.32 ± 0.62 (9)	8.28 ± 0.76 (10)	6.59 ± 0.41 (10)	7.57 ± 0.40 (10)
Percent of Control			113.1	90.1	103.4
Monocytes (10 ³ /uL)	PND 111 - 113	0.29 ± 0.02 (9)	0.37 ± 0.11 (10)	0.21 ± 0.04 (10)	0.27 ± 0.03 (10)
Percent of Control			127.9	73.7	94.5
Basophils (10 ³ /uL)	PND 111 - 113	0.11 ± 0.01 (9)	0.12 ± 0.02 (10)	0.12 ± 0.04 (10)	0.11 ± 0.02 (10)
Percent of Control			109.1	108.2	101.8
Eosinophils (10 ³ /uL)	PND 111 - 113	0.10 ± 0.01 (9)	0.18 ± 0.03 (10)	0.11 ± 0.01 (10)	0.13 ± 0.01 (10)
Percent of Control			179.0	110.2	135.5
Large Unstained Cells (10 ³ /uL)	PND 111 - 113	0.10 ± 0.01 (9)	0.17 ± 0.05 (10)	0.10 ± 0.02 (10)	0.11 ± 0.01 (10)
Percent of Control			168.0	102.0	107.0
Neutrophil Percentage	PND 111 - 113	8.3 ± 0.7 (9)	12.3 ± 2.8 (10)	9.3 ± 0.6 (10)	9.2 ± 0.9 (10)
Percent of Control			148.0	112.6	110.5
Lymphocyte Percentage	PND 111 - 113	84.6 ± 1.1 (9)	80.3 ± 3.0 (10)	83.9 ± 1.1 (10)	83.9 ± 1.0 (10)
Percent of Control			94.9	99.2	99.2
Monocyte Percentage	PND 111 - 113	3.5 ± 0.4 (9)	3.0 ± 0.4 (10)	2.6 ± 0.3 (10)	3.0 ± 0.2 (10)
Percent of Control			86.3	75.6	85.7
Basophil Percentage	PND 111 - 113	1.3 ± 0.1 (9)	1.1 ± 0.1 (10)	1.5 ± 0.4 (10)	1.2 ± 0.2 (10)
Percent of Control			86.9	112.1	94.6
Eosinophil Percentage	PND 111 - 113	1.2 ± 0.1 (9)	1.7 ± 0.3 (10)	1.4 ± 0.1 (10)	1.5 ± 0.2 (10)
Percent of Control			140.8	115.0	125.0
Large Unstained Cell Percentage	PND 111 - 113	1.1 ± 0.2 (9)	1.6 ± 0.5 (10)	1.3 ± 0.2 (10)	1.2 ± 0.2 (10)
Percent of Control			142.4	109.2	107.5

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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

PND - Postnatal Day, adults post-weaning

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 ****