

**Experiment Number:** 05202-03

**Species/Strain:** Rat/Fischer 344

**P43: Terminal Sacrifice Hematology Data**

**Date Report Requested:** 10/24/2014

**Time Report Requested:** 13:17:55

**First Dose M/F:** NA / NA

**Lab:** NA

**C Number:** C62271

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Both

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First Dose M/F: NA / NA

Lab: NA

**MALE**

Treatment Groups	Eosinophil Count	Hematocrit %	Hematocrit Manual %	Hemoglobin g per dL	Lymphocyte Count 1000 per uL	Mean Cell Hemoglobin pg
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**Day 91**

<b>0 mg/m3</b>	0 ± 0.1	47.3 ± 1.7	47 ± 1.5	15.3 ± 0.5	7.2 ± 2.7	17.6 ± 0.8
<b>0.12 mg/m3</b>	0 ± 0	47.2 ± 1.3	47 ± 1.3	15.2 ± 0.3	7.7 ± 2.3	17.4 ± 0.7
<b>0.48 mg/m3</b>	0 ± 0.1	46 ± 1.4	46.4 ± 1.5	14.9 ± 0.4	7.2 ± 1.9	17.5 ± 0.7
<b>4.8 mg/m3</b>	0 ± 0	47.4 ± 1.1	47.7 ± 1.1	15.3 ± 0.3	7 ± 2	<b>17.2 ± 0.9*</b>
<b>24 mg/m3</b>	0 ± 0	47 ± 1.1	47.5 ± 1.2	15.2 ± 0.5	6.5 ± 1.8	<b>16.7 ± 1.2**</b>
<b>48 mg/m3</b>	0.1 ± 0.1	<b>45.9 ± 1.4*</b>	46.7 ± 1.7	<b>14.9 ± 0.5*</b>	6.9 ± 2.1	<b>16.2 ± 1.4**</b>

\*p < 0.05

\*\*p < 0.01

NOTE: Table is to include results for each time point samples were analyzed. Similar table is to be included for hematology parameters.

The values used in the calculations are the observations taken at the furthest point in the study for each subject (the greatest number of "days on study"). The "day" displayed is the maximum value of "days on study" across all subjects.

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MALE

Treatment Groups	Mean Cell Hemoglobin Concentration g per dL	Mean Corpuscular Volume fL	Methemoglobin Pct Hgb %	Monocyte Count 1000 per uL	Nucleated Rbc Per 100 Wbc per 100 WC	Platelet Count 1000 per uL
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Day 91

<b>0 mg/m3</b>	32.2 ± 0.5	54.7 ± 2.8	0.8 ± 0.3	0 ± 0.1	0.8 ± 0.8	572.1 ± 53
<b>0.12 mg/m3</b>	32.2 ± 0.4	54.1 ± 2.8	0.7 ± 0.1	0 ± 0.1	0.8 ± 1.1	585.8 ± 42.2
<b>0.48 mg/m3</b>	32.4 ± 0.6	54.2 ± 3.1	0.8 ± 0.3	0.2 ± 0.2	0.6 ± 0.9	624.7 ± 38.6
<b>4.8 mg/m3</b>	32.4 ± 0.4	<b>53.2 ± 3.1**</b>	0.7 ± 0.1	0.2 ± 0.3	0.9 ± 1.1	622.2 ± 57.9
<b>24 mg/m3</b>	32.4 ± 0.5	<b>51.5 ± 4.3**</b>	0.8 ± 0.1	0.1 ± 0.1	1.1 ± 1.4	594.4 ± 59
<b>48 mg/m3</b>	32.4 ± 0.5	<b>50.2 ± 5**</b>	0.7 ± 0.2	0.1 ± 0.1	0.3 ± 0.7	<b>632.5 ± 81.4**</b>

\*p < 0.05

\*\*p < 0.01

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MALE

Treatment Groups	Red Blood Cell Count million per uL	Reticulocyte Count million per uL	Segmented Neutrophil Count 1000 per uL	White Blood Cell Count 1000 per uL
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Day 91

<b>0 mg/m3</b>	8.7 ± 0.3	0.3 ± 0	1.1 ± 0.4	8.4 ± 2.9
<b>0.12 mg/m3</b>	8.7 ± 0.3	0.3 ± 0.1	1.4 ± 0.4	9.2 ± 2.2
<b>0.48 mg/m3</b>	8.5 ± 0.4	0.3 ± 0.1	1.4 ± 0.7	8.9 ± 1.7
<b>4.8 mg/m3</b>	8.9 ± 0.6	<b>0.3 ± 0*</b>	1.5 ± 0.7	8.8 ± 2.2
<b>24 mg/m3</b>	9.2 ± 0.9	<b>0.3 ± 0.1**</b>	1.4 ± 0.4	7.9 ± 2
<b>48 mg/m3</b>	<b>9.2 ± 0.9*</b>	<b>0.3 ± 0**</b>	<b>1.7 ± 0.7**</b>	8.7 ± 2.5

\*p < 0.05

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**MALE**

Treatment Groups	Eosinophil Count	Hematocrit %	Hematocrit Manual %	Hemoglobin g per dL	Lymphocyte Count 1000 per uL	Mean Cell Hemoglobin pg
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**Day 3**

<b>0 mg/m3</b>	0 ± 0.1	47.3 ± 1.7	47 ± 1.5	15.3 ± 0.5	7.2 ± 2.7	17.6 ± 0.8
<b>0.12 mg/m3</b>	0 ± 0	47.2 ± 1.3	47 ± 1.3	15.2 ± 0.3	7.7 ± 2.3	17.4 ± 0.7
<b>0.48 mg/m3</b>	0 ± 0.1	46 ± 1.4	46.4 ± 1.5	14.9 ± 0.4	7.2 ± 1.9	17.5 ± 0.7
<b>4.8 mg/m3</b>	0 ± 0	47.4 ± 1.1	47.7 ± 1.1	15.3 ± 0.3	7 ± 2	<b>17.2 ± 0.9*</b>
<b>24 mg/m3</b>	0 ± 0	47 ± 1.1	47.5 ± 1.2	15.2 ± 0.5	6.5 ± 1.8	<b>16.7 ± 1.2**</b>
<b>48 mg/m3</b>	0.1 ± 0.1	<b>45.9 ± 1.4*</b>	46.7 ± 1.7	<b>14.9 ± 0.5*</b>	6.9 ± 2.1	<b>16.2 ± 1.4**</b>

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NOTE: Table is to include results for each time point samples were analyzed. Similar table is to be included for hematology parameters.

The values used in the calculations are the observations taken at the furthest point in the study for each subject (the greatest number of "days on study"). The "day" displayed is the maximum value of "days on study" across all subjects.

## MALE

Treatment Groups	Mean Cell Hemoglobin Concentration g per dL	Mean Corpuscular Volume fL	Methemoglobin Pct Hgb %	Monocyte Count 1000 per uL	Nucleated Rbc Per 100 Wbc per 100 WC	Platelet Count 1000 per uL
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## Day 3

<b>0 mg/m3</b>	32.2 ± 0.5	54.7 ± 2.8	0.8 ± 0.3	0 ± 0.1	0.8 ± 0.8	572.1 ± 53
<b>0.12 mg/m3</b>	32.2 ± 0.4	54.1 ± 2.8	0.7 ± 0.1	0 ± 0.1	0.8 ± 1.1	585.8 ± 42.2
<b>0.48 mg/m3</b>	32.4 ± 0.6	54.2 ± 3.1	0.8 ± 0.3	0.2 ± 0.2	0.6 ± 0.9	624.7 ± 38.6
<b>4.8 mg/m3</b>	32.4 ± 0.4	<b>53.2 ± 3.1**</b>	0.7 ± 0.1	0.2 ± 0.3	0.9 ± 1.1	622.2 ± 57.9
<b>24 mg/m3</b>	32.4 ± 0.5	<b>51.5 ± 4.3**</b>	0.8 ± 0.1	0.1 ± 0.1	1.1 ± 1.4	594.4 ± 59
<b>48 mg/m3</b>	32.4 ± 0.5	<b>50.2 ± 5**</b>	0.7 ± 0.2	0.1 ± 0.1	0.3 ± 0.7	<b>632.5 ± 81.4**</b>

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MALE

Treatment Groups	Red Blood Cell Count million per uL	Reticulocyte Count million per uL	Segmented Neutrophil Count 1000 per uL	White Blood Cell Count 1000 per uL
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Day 3

<b>0 mg/m3</b>	8.7 ± 0.3	0.3 ± 0	1.1 ± 0.4	8.4 ± 2.9
<b>0.12 mg/m3</b>	8.7 ± 0.3	0.3 ± 0.1	1.4 ± 0.4	9.2 ± 2.2
<b>0.48 mg/m3</b>	8.5 ± 0.4	0.3 ± 0.1	1.4 ± 0.7	8.9 ± 1.7
<b>4.8 mg/m3</b>	8.9 ± 0.6	<b>0.3 ± 0*</b>	1.5 ± 0.7	8.8 ± 2.2
<b>24 mg/m3</b>	9.2 ± 0.9	<b>0.3 ± 0.1**</b>	1.4 ± 0.4	7.9 ± 2
<b>48 mg/m3</b>	<b>9.2 ± 0.9*</b>	<b>0.3 ± 0**</b>	<b>1.7 ± 0.7**</b>	8.7 ± 2.5

\*p < 0.05

\*\*p < 0.01

NOTE: Table is to include results for each time point samples were analyzed. Similar table is to be included for hematology parameters.

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**FEMALE**

Treatment Groups	Eosinophil Count	Hematocrit %	Hematocrit Manual %	Hemoglobin g per dL	Lymphocyte Count 1000 per uL	Mean Cell Hemoglobin pg
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**Day 91**

<b>0 mg/m3</b>	0.1 ± 0.1	48.3 ± 1.8	47.9 ± 1.4	15.6 ± 0.6	6.9 ± 2	18.2 ± 0.3
<b>0.12 mg/m3</b>	0 ± 0	48.3 ± 2	47.9 ± 2	15.6 ± 0.7	6.9 ± 1.5	18.1 ± 0.3
<b>0.48 mg/m3</b>	0.1 ± 0.1	47.2 ± 1.5	47 ± 1.3	15.2 ± 0.6	6 ± 1.3	18.1 ± 0.3
<b>4.8 mg/m3</b>	0 ± 0.1	47.7 ± 1.6	47.6 ± 1.5	15.5 ± 0.6	5.3 ± 0.9	18.1 ± 0.3
<b>24 mg/m3</b>	0 ± 0	48.3 ± 2.3	48.4 ± 2.2	15.6 ± 0.9	5.3 ± 0.7	18 ± 0.4
<b>48 mg/m3</b>	0 ± 0	48.1 ± 1.6	48.3 ± 1.5	15.6 ± 0.6	5.6 ± 1.4	<b>17.9 ± 0.6*</b>

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## FEMALE

Treatment Groups	Mean Cell Hemoglobin Concentration g per dL	Mean Corpuscular Volume fL	Methemoglobin Pct Hgb %	Monocyte Count 1000 per uL	Nucleated Rbc Per 100 Wbc per 100 WC	Platelet Count 1000 per uL
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## Day 91

<b>0 mg/m3</b>	32.2 ± 0.4	56.4 ± 1.3	0.8 ± 0.1	0.1 ± 0.1	1.1 ± 1.3	619.5 ± 86.9
<b>0.12 mg/m3</b>	32.3 ± 0.4	56.2 ± 1.2	0.7 ± 0.1	0.1 ± 0.1	0.5 ± 0.8	567.8 ± 47.9
<b>0.48 mg/m3</b>	32.2 ± 0.4	56.1 ± 1.2	0.8 ± 0.1	0 ± 0	0.6 ± 0.8	675.4 ± 71.8
<b>4.8 mg/m3</b>	32.5 ± 0.4	55.8 ± 1	0.8 ± 0.1	0 ± 0	1 ± 1.3	640.8 ± 101.5
<b>24 mg/m3</b>	32.2 ± 0.6	55.9 ± 1.9	0.8 ± 0.2	0 ± 0	0.7 ± 1	675.2 ± 98.1
<b>48 mg/m3</b>	32.4 ± 0.6	<b>55.1 ± 1.9**</b>	0.7 ± 0.2	0 ± 0	0.6 ± 0.8	<b>695.1 ± 89.4*</b>

\*p &lt; 0.05

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**FEMALE**

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Treatment Groups	Red Blood Cell Count million per uL	Reticulocyte Count million per uL	Segmented Neutrophil Count 1000 per uL	White Blood Cell Count 1000 per uL
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**Day 91**

<b>0 mg/m3</b>	8.6 ± 0.4	0.2 ± 0.1	1.2 ± 0.7	8.2 ± 2.3
<b>0.12 mg/m3</b>	8.6 ± 0.4	0.2 ± 0	1.2 ± 0.5	8.2 ± 1.4
<b>0.48 mg/m3</b>	8.4 ± 0.4	0.2 ± 0	1.4 ± 0.6	7.6 ± 1.4
<b>4.8 mg/m3</b>	8.6 ± 0.4	0.2 ± 0	1.7 ± 0.5	7 ± 1.2
<b>24 mg/m3</b>	8.6 ± 0.6	<b>0.2 ± 0**</b>	1.3 ± 0.4	6.7 ± 0.9
<b>48 mg/m3</b>	8.7 ± 0.5	<b>0.2 ± 0.1**</b>	1.4 ± 0.5	7.1 ± 1.6

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FEMALE

Treatment Groups	Eosinophil Count	Hematocrit %	Hematocrit Manual %	Hemoglobin g per dL	Lymphocyte Count 1000 per uL	Mean Cell Hemoglobin pg
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Day 3

<b>0 mg/m3</b>	0.1 ± 0.1	48.3 ± 1.8	47.9 ± 1.4	15.6 ± 0.6	6.9 ± 2	18.2 ± 0.3
<b>0.12 mg/m3</b>	0 ± 0	48.3 ± 2	47.9 ± 2	15.6 ± 0.7	6.9 ± 1.5	18.1 ± 0.3
<b>0.48 mg/m3</b>	0.1 ± 0.1	47.2 ± 1.5	47 ± 1.3	15.2 ± 0.6	6 ± 1.3	18.1 ± 0.3
<b>4.8 mg/m3</b>	0 ± 0.1	47.7 ± 1.6	47.6 ± 1.5	15.5 ± 0.6	5.3 ± 0.9	18.1 ± 0.3
<b>24 mg/m3</b>	0 ± 0	48.3 ± 2.3	48.4 ± 2.2	15.6 ± 0.9	5.3 ± 0.7	18 ± 0.4
<b>48 mg/m3</b>	0 ± 0	48.1 ± 1.6	48.3 ± 1.5	15.6 ± 0.6	5.6 ± 1.4	<b>17.9 ± 0.6*</b>

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## FEMALE

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## Day 3

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<b>0.48 mg/m3</b>	32.2 ± 0.4	56.1 ± 1.2	0.8 ± 0.1	0 ± 0	0.6 ± 0.8	675.4 ± 71.8
<b>4.8 mg/m3</b>	32.5 ± 0.4	55.8 ± 1	0.8 ± 0.1	0 ± 0	1 ± 1.3	640.8 ± 101.5
<b>24 mg/m3</b>	32.2 ± 0.6	55.9 ± 1.9	0.8 ± 0.2	0 ± 0	0.7 ± 1	675.2 ± 98.1
<b>48 mg/m3</b>	32.4 ± 0.6	<b>55.1 ± 1.9**</b>	0.7 ± 0.2	0 ± 0	0.6 ± 0.8	<b>695.1 ± 89.4*</b>

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**FEMALE**

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Treatment Groups	Red Blood Cell Count million per uL	Reticulocyte Count million per uL	Segmented Neutrophil Count 1000 per uL	White Blood Cell Count 1000 per uL
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**Day 3**

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<b>0.12 mg/m3</b>	8.6 ± 0.4	0.2 ± 0	1.2 ± 0.5	8.2 ± 1.4
<b>0.48 mg/m3</b>	8.4 ± 0.4	0.2 ± 0	1.4 ± 0.6	7.6 ± 1.4
<b>4.8 mg/m3</b>	8.6 ± 0.4	0.2 ± 0	1.7 ± 0.5	7 ± 1.2
<b>24 mg/m3</b>	8.6 ± 0.6	<b>0.2 ± 0**</b>	1.3 ± 0.4	6.7 ± 0.9
<b>48 mg/m3</b>	8.7 ± 0.5	<b>0.2 ± 0.1**</b>	1.4 ± 0.5	7.1 ± 1.6

**\*\* END OF REPORT \*\***

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