

Experiment Number: 97008-03

Species/Strain: Rat/Fischer 344

P43: Terminal Sacrifice Hematology Data

Date Report Requested: 10/24/2014

Time Report Requested: 18:55:15

First Dose M/F: NA / NA

Lab: NA

C Number: C97008

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Both

Experiment Number: 97008-03

Species/Strain: Rat/Fischer 344

P43: Terminal Sacrifice Hematology Data

Date Report Requested: 10/24/2014

Time Report Requested: 18:55:15

First Dose M/F: NA / NA

Lab: NA

MALE

Treatment Groups	Band Neutrophil Count 1000 per microliter	Band Neutrophil Percentage %	Basophil Count 1000 per uL	Basophil Percentage %	Eosinophil Count	Eosinophil Percentage %
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Day 93

0 ppm	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.4 ± 0.5
4 ppm	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0.1	0.6 ± 0.7
8 ppm	0 ± 0	0 ± 0	0 ± 0	0 ± 0.2	0 ± 0.1	0.6 ± 0.9
16 ppm	0 ± 0	0.1 ± 0.2	0 ± 0	0.1 ± 0.3	0 ± 0.1	0.7 ± 0.9
32 ppm	0 ± 0	0.1 ± 0.2	0 ± 0	0.1 ± 0.2	0.1 ± 0.1	0.8 ± 0.8
64 ppm	0 ± 0	0 ± 0	0 ± 0	0.1 ± 0.2	0 ± 0.1	0.5 ± 0.8

*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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Lab: NA

MALE

Treatment Groups	Hematocrit %	Hematocrit Manual %	Hemoglobin g per dL	Lymphocyte Count 1000 per uL	Lymphocyte Percentage %	Mean Cell Hemoglobin pg
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Day 93

0 ppm	43.9 ± 2.4	44.9 ± 2.8	14.7 ± 0.5	4.3 ± 2	82.5 ± 5.3	19.2 ± 0.7
4 ppm	43.5 ± 2.2	44.8 ± 2.8	14.6 ± 0.5	4.4 ± 1.9	83.4 ± 5.1	19.2 ± 1
8 ppm	44.4 ± 1.8	45.3 ± 2.3	14.7 ± 0.5	4.1 ± 1.6	82.3 ± 5.3	18.9 ± 1.1
16 ppm	44 ± 1.3	45.2 ± 1.8	14.6 ± 0.3	4.8 ± 2.1	83.4 ± 4.7	18.6 ± 0.8
32 ppm	43.5 ± 1.8	45 ± 2.1	14.6 ± 0.4	4.8 ± 2.1	83.5 ± 3.7	18.8 ± 1.1
64 ppm	43.5 ± 2.7	44.6 ± 2.7	14.5 ± 0.5	4.8 ± 2	82.7 ± 5.8	18.5 ± 1**

*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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First Dose M/F: NA / NA

Lab: NA

MALE

Treatment Groups	Mean Cell Hemoglobin Concentration g per dL	Mean Corpuscular Volume fL	Monocyte Count 1000 per uL	Monocyte Percentage %	Nucleated Rbc Count 1000 per uL	Nucleated Rbc Per 100 Wbc per 100 WC
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Day 93

0 ppm	33.7 ± 1.5	57 ± 3.6	0.1 ± 0.1	1.7 ± 2	5.3 ± 2.5	0.3 ± 0.5
4 ppm	33.7 ± 1	57 ± 3.8	0.1 ± 0.1	2.3 ± 2.1	5.2 ± 2.2	0.3 ± 0.7
8 ppm	33.3 ± 0.9	57 ± 4.3	0.1 ± 0.1	1.6 ± 1.3	5.1 ± 2	0.5 ± 0.6
16 ppm	33.2 ± 0.9	56 ± 3.4	0.1 ± 0.1	1.8 ± 1.5	5.8 ± 2.6	0.3 ± 0.6
32 ppm	33.6 ± 0.9	55.9 ± 4.1	0.1 ± 0.1	1.9 ± 2.1	5.8 ± 2.6	0.3 ± 0.5
64 ppm	33.5 ± 1.2	55.5 ± 4.3*	0.1 ± 0.1	1.6 ± 1.8	5.8 ± 2.3	0.2 ± 0.6

*p < 0.05

**p < 0.01

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First Dose MF: NA / NA

Lab: NA

MALE

Treatment Groups	Platelet Count 1000 per uL	Red Blood Cell Count million per uL	Reticulocyte Count million per uL	Reticulocyte Percentage count per 100 RBC	Segmented Neutrophil Count 1000 per uL	Segmented Neutrophil Percentage %
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Day 93

0 ppm	635.9 ± 73.4	7.7 ± 0.4	184.8 ± 67	24.2 ± 9.3	0.8 ± 0.6	15.4 ± 5.4
4 ppm	629 ± 143.7	7.6 ± 0.5	205.2 ± 85.7	27.2 ± 12.1	0.7 ± 0.4	13.8 ± 4.5
8 ppm	682.7 ± 77.5	7.8 ± 0.5	239.2 ± 119.4	31.6 ± 19.8	0.8 ± 0.5	15.5 ± 5.6
16 ppm	666.4 ± 88.5	7.9 ± 0.4	206.5 ± 77.5	26.6 ± 10.8	0.8 ± 0.5	13.9 ± 4.9
32 ppm	633 ± 123.4	7.8 ± 0.5	211.4 ± 62.2	27.4 ± 9.2	0.8 ± 0.5	13.7 ± 3.8
64 ppm	676.5 ± 79.7	7.9 ± 0.4	254.7 ± 91.1*	32.7 ± 12.5	0.9 ± 0.4	15.1 ± 5.7

*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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Species/Strain: Rat/Fischer 344

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Date Report Requested: 10/24/2014

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First Dose M/F: NA / NA

Lab: NA

MALE

Treatment Groups	White Blood Cell Count 1000 per uL
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Day 93

0 ppm	5.3 ± 2.5
4 ppm	5.2 ± 2.2
8 ppm	5.1 ± 2
16 ppm	5.8 ± 2.6
32 ppm	5.8 ± 2.6
64 ppm	5.8 ± 2.3

*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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First Dose M/F: NA / NA

Lab: NA

MALE

Treatment Groups	Band Neutrophil Count 1000 per microliter	Band Neutrophil Percentage %	Basophil Count 1000 per uL	Basophil Percentage %	Eosinophil Count	Eosinophil Percentage %
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Day 94

0 ppm	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.4 ± 0.5
4 ppm	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0.1	0.6 ± 0.7
8 ppm	0 ± 0	0 ± 0	0 ± 0	0 ± 0.2	0 ± 0.1	0.6 ± 0.9
16 ppm	0 ± 0	0.1 ± 0.2	0 ± 0	0.1 ± 0.3	0 ± 0.1	0.7 ± 0.9
32 ppm	0 ± 0	0.1 ± 0.2	0 ± 0	0.1 ± 0.2	0.1 ± 0.1	0.8 ± 0.8
64 ppm	0 ± 0	0 ± 0	0 ± 0	0.1 ± 0.2	0 ± 0.1	0.5 ± 0.8

*p < 0.05

**p < 0.01

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Lab: NA

MALE

Treatment Groups	Hematocrit %	Hematocrit Manual %	Hemoglobin g per dL	Lymphocyte Count 1000 per uL	Lymphocyte Percentage %	Mean Cell Hemoglobin pg
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Day 94

0 ppm	43.9 ± 2.4	44.9 ± 2.8	14.7 ± 0.5	4.3 ± 2	82.5 ± 5.3	19.2 ± 0.7
4 ppm	43.5 ± 2.2	44.8 ± 2.8	14.6 ± 0.5	4.4 ± 1.9	83.4 ± 5.1	19.2 ± 1
8 ppm	44.4 ± 1.8	45.3 ± 2.3	14.7 ± 0.5	4.1 ± 1.6	82.3 ± 5.3	18.9 ± 1.1
16 ppm	44 ± 1.3	45.2 ± 1.8	14.6 ± 0.3	4.8 ± 2.1	83.4 ± 4.7	18.6 ± 0.8
32 ppm	43.5 ± 1.8	45 ± 2.1	14.6 ± 0.4	4.8 ± 2.1	83.5 ± 3.7	18.8 ± 1.1
64 ppm	43.5 ± 2.7	44.6 ± 2.7	14.5 ± 0.5	4.8 ± 2	82.7 ± 5.8	18.5 ± 1**

*p < 0.05

**p < 0.01

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First Dose M/F: NA / NA

Lab: NA

MALE

Treatment Groups	Mean Cell Hemoglobin Concentration g per dL	Mean Corpuscular Volume fL	Monocyte Count 1000 per uL	Monocyte Percentage %	Nucleated Rbc Count 1000 per uL	Nucleated Rbc Per 100 Wbc per 100 WC
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Day 94

0 ppm	33.7 ± 1.5	57 ± 3.6	0.1 ± 0.1	1.7 ± 2	5.3 ± 2.5	0.3 ± 0.5
4 ppm	33.7 ± 1	57 ± 3.8	0.1 ± 0.1	2.3 ± 2.1	5.2 ± 2.2	0.3 ± 0.7
8 ppm	33.3 ± 0.9	57 ± 4.3	0.1 ± 0.1	1.6 ± 1.3	5.1 ± 2	0.5 ± 0.6
16 ppm	33.2 ± 0.9	56 ± 3.4	0.1 ± 0.1	1.8 ± 1.5	5.8 ± 2.6	0.3 ± 0.6
32 ppm	33.6 ± 0.9	55.9 ± 4.1	0.1 ± 0.1	1.9 ± 2.1	5.8 ± 2.6	0.3 ± 0.5
64 ppm	33.5 ± 1.2	55.5 ± 4.3*	0.1 ± 0.1	1.6 ± 1.8	5.8 ± 2.3	0.2 ± 0.6

*p < 0.05

**p < 0.01

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First Dose MF: NA / NA

Lab: NA

MALE

Treatment Groups	Platelet Count 1000 per uL	Red Blood Cell Count million per uL	Reticulocyte Count million per uL	Reticulocyte Percentage count per 100 RBC	Segmented Neutrophil Count 1000 per uL	Segmented Neutrophil Percentage %
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Day 94

0 ppm	635.9 ± 73.4	7.7 ± 0.4	184.8 ± 67	24.2 ± 9.3	0.8 ± 0.6	15.4 ± 5.4
4 ppm	629 ± 143.7	7.6 ± 0.5	205.2 ± 85.7	27.2 ± 12.1	0.7 ± 0.4	13.8 ± 4.5
8 ppm	682.7 ± 77.5	7.8 ± 0.5	239.2 ± 119.4	31.6 ± 19.8	0.8 ± 0.5	15.5 ± 5.6
16 ppm	666.4 ± 88.5	7.9 ± 0.4	206.5 ± 77.5	26.6 ± 10.8	0.8 ± 0.5	13.9 ± 4.9
32 ppm	633 ± 123.4	7.8 ± 0.5	211.4 ± 62.2	27.4 ± 9.2	0.8 ± 0.5	13.7 ± 3.8
64 ppm	676.5 ± 79.7	7.9 ± 0.4	254.7 ± 91.1*	32.7 ± 12.5	0.9 ± 0.4	15.1 ± 5.7

*p < 0.05

**p < 0.01

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First Dose M/F: NA / NA

Lab: NA

MALE

Treatment Groups	White Blood Cell Count 1000 per uL
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Day 94

0 ppm	5.3 ± 2.5
4 ppm	5.2 ± 2.2
8 ppm	5.1 ± 2
16 ppm	5.8 ± 2.6
32 ppm	5.8 ± 2.6
64 ppm	5.8 ± 2.3

*p < 0.05

**p < 0.01

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Time Report Requested: 18:55:15

First Dose M/F: NA / NA

Lab: NA

FEMALE

Treatment Groups	Basophil Count 1000 per uL	Basophil Percentage %	Eosinophil Count	Eosinophil Percentage %	Hematocrit %	Hematocrit Manual %
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Day 93

0 ppm	0 ± 0	0.1 ± 0.3	0.1 ± 0.1	0.8 ± 0.8	45.3 ± 3.1	46 ± 3.3
4 ppm	0 ± 0	0 ± 0	0.1 ± 0.1	0.8 ± 0.8	45 ± 2.9	45.7 ± 3.1
8 ppm	0 ± 0	0 ± 0.2	0.1 ± 0.1	0.8 ± 1.5	44.9 ± 3.3	46 ± 3.3
16 ppm	0 ± 0	0.1 ± 0.2	0 ± 0	0.3 ± 0.7	44.6 ± 3.3	45.3 ± 3.2
32 ppm	0 ± 0	0 ± 0	0 ± 0	0.5 ± 0.5	45.6 ± 4.5	46.5 ± 3.5
64 ppm	0 ± 0	0.1 ± 0.2	0.1 ± 0.1	0.7 ± 0.8	44.6 ± 3.8	45.5 ± 3.7

*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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Species/Strain: Rat/Fischer 344

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First Dose M/F: NA / NA

Lab: NA

FEMALE

Treatment Groups	Hemoglobin g per dL	Lymphocyte Count 1000 per uL	Lymphocyte Percentage %	Mean Cell Hemoglobin pg	Mean Cell Hemoglobin Concentration g per dL	Mean Corpuscular Volume fL
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Day 93

0 ppm	15.3 ± 0.6	5.5 ± 1.5	84 ± 4.5	20 ± 0.4	33.8 ± 1.2	59.3 ± 2.1
4 ppm	15.1 ± 0.6	5.4 ± 1.6	83.4 ± 5.9	20 ± 0.5	33.7 ± 1.3	59.5 ± 2.7
8 ppm	15.2 ± 0.6	5.4 ± 1.4	84.2 ± 5	20.1 ± 0.5	33.9 ± 1.6	59.2 ± 2.6
16 ppm	15 ± 0.6	5.7 ± 1.3	85.8 ± 6.1	19.9 ± 0.6	33.7 ± 1.6	59 ± 2.6
32 ppm	15.3 ± 0.9	6.2 ± 1.4	87.5 ± 4.9	20 ± 0.5	33.8 ± 1.5	59.5 ± 3.1
64 ppm	15.1 ± 0.8	6.4 ± 1.8	86.8 ± 4.7	20 ± 0.5	33.9 ± 1.4	59 ± 2.7

*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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Species/Strain: Rat/Fischer 344

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First Dose M/F: NA / NA

Lab: NA

FEMALE

Treatment Groups	Monocyte Count 1000 per uL	Monocyte Percentage %	Nucleated Rbc Count 1000 per uL	Nucleated Rbc Per 100 Wbc per 100 WC	Platelet Count 1000 per uL	Red Blood Cell Count million per uL
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Day 93

0 ppm	0.1 ± 0.1	1 ± 1.5	6.5 ± 1.6	0.1 ± 0.4	633.5 ± 49.9	7.6 ± 0.3
4 ppm	0.1 ± 0.1	1 ± 0.8	6.5 ± 1.6	0.4 ± 0.8	646.9 ± 59.4	7.6 ± 0.3
8 ppm	0.1 ± 0.1	0.8 ± 0.9	6.5 ± 1.7	0.2 ± 0.5	650.5 ± 55.3	7.6 ± 0.4
16 ppm	0.1 ± 0.1	1.2 ± 1.6	6.6 ± 1.2	0.2 ± 0.6	636.9 ± 51.8	7.5 ± 0.4
32 ppm	0 ± 0.1	0.6 ± 1.1	7.1 ± 1.5	0.1 ± 0.4	652.4 ± 40	7.7 ± 0.5
64 ppm	0.1 ± 0.1	1.3 ± 1.3	7.4 ± 1.9	0.2 ± 0.4	646.4 ± 47.5	7.6 ± 0.4

*p < 0.05

**p < 0.01

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FEMALE

Treatment Groups	Reticulocyte Count million per uL	Reticulocyte Percentage count per 100 RBC	Segmented Neutrophil Count 1000 per uL	Segmented Neutrophil Percentage %	White Blood Cell Count 1000 per uL
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Day 93

0 ppm	70.8 ± 74.4	17.2 ± 5.3	0.9 ± 0.3	14.1 ± 4.1	6.5 ± 1.6
4 ppm	79.2 ± 84.9	19.1 ± 5.3	0.9 ± 0.4	14.8 ± 6.2	6.5 ± 1.6
8 ppm	73.5 ± 77.9	17.4 ± 4.9	0.9 ± 0.4	14 ± 4.4	6.4 ± 1.7
16 ppm	65.5 ± 68.7	18.2 ± 5.4	0.8 ± 0.4	12.6 ± 6.2	6.6 ± 1.2
32 ppm	116.8 ± 77.8*	19.8 ± 5.7	0.8 ± 0.2	11.4 ± 4.8	7.1 ± 1.5
64 ppm	177.8 ± 40.1**	23.6 ± 5.4**	0.8 ± 0.3	11.2 ± 4.9	7.4 ± 1.9

*p < 0.05

**p < 0.01

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First Dose M/F: NA / NA

Lab: NA

FEMALE

Treatment Groups	Basophil Count 1000 per uL	Basophil Percentage %	Eosinophil Count	Eosinophil Percentage %	Hematocrit %	Hematocrit Manual %
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Day 94

0 ppm	0 ± 0	0.1 ± 0.3	0.1 ± 0.1	0.8 ± 0.8	45.3 ± 3.1	46 ± 3.3
4 ppm	0 ± 0	0 ± 0	0.1 ± 0.1	0.8 ± 0.8	45 ± 2.9	45.7 ± 3.1
8 ppm	0 ± 0	0 ± 0.2	0.1 ± 0.1	0.8 ± 1.5	44.9 ± 3.3	46 ± 3.3
16 ppm	0 ± 0	0.1 ± 0.2	0 ± 0	0.3 ± 0.7	44.6 ± 3.3	45.3 ± 3.2
32 ppm	0 ± 0	0 ± 0	0 ± 0	0.5 ± 0.5	45.6 ± 4.5	46.5 ± 3.5
64 ppm	0 ± 0	0.1 ± 0.2	0.1 ± 0.1	0.7 ± 0.8	44.6 ± 3.8	45.5 ± 3.7

*p < 0.05

**p < 0.01

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First Dose M/F: NA / NA

Lab: NA

FEMALE

Treatment Groups	Hemoglobin g per dL	Lymphocyte Count 1000 per uL	Lymphocyte Percentage %	Mean Cell Hemoglobin pg	Mean Cell Hemoglobin Concentration g per dL	Mean Corpuscular Volume fL
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Day 94

0 ppm	15.3 ± 0.6	5.5 ± 1.5	84 ± 4.5	20 ± 0.4	33.8 ± 1.2	59.3 ± 2.1
4 ppm	15.1 ± 0.6	5.4 ± 1.6	83.4 ± 5.9	20 ± 0.5	33.7 ± 1.3	59.5 ± 2.7
8 ppm	15.2 ± 0.6	5.4 ± 1.4	84.2 ± 5	20.1 ± 0.5	33.9 ± 1.6	59.2 ± 2.6
16 ppm	15 ± 0.6	5.7 ± 1.3	85.8 ± 6.1	19.9 ± 0.6	33.7 ± 1.6	59 ± 2.6
32 ppm	15.3 ± 0.9	6.2 ± 1.4	87.5 ± 4.9	20 ± 0.5	33.8 ± 1.5	59.5 ± 3.1
64 ppm	15.1 ± 0.8	6.4 ± 1.8	86.8 ± 4.7	20 ± 0.5	33.9 ± 1.4	59 ± 2.7

*p < 0.05

**p < 0.01

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Lab: NA

FEMALE

Treatment Groups	Monocyte Count 1000 per uL	Monocyte Percentage %	Nucleated Rbc Count 1000 per uL	Nucleated Rbc Per 100 Wbc per 100 WC	Platelet Count 1000 per uL	Red Blood Cell Count million per uL
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Day 94

0 ppm	0.1 ± 0.1	1 ± 1.5	6.5 ± 1.6	0.1 ± 0.4	633.5 ± 49.9	7.6 ± 0.3
4 ppm	0.1 ± 0.1	1 ± 0.8	6.5 ± 1.6	0.4 ± 0.8	646.9 ± 59.4	7.6 ± 0.3
8 ppm	0.1 ± 0.1	0.8 ± 0.9	6.5 ± 1.7	0.2 ± 0.5	650.5 ± 55.3	7.6 ± 0.4
16 ppm	0.1 ± 0.1	1.2 ± 1.6	6.6 ± 1.2	0.2 ± 0.6	636.9 ± 51.8	7.5 ± 0.4
32 ppm	0 ± 0.1	0.6 ± 1.1	7.1 ± 1.5	0.1 ± 0.4	652.4 ± 40	7.7 ± 0.5
64 ppm	0.1 ± 0.1	1.3 ± 1.3	7.4 ± 1.9	0.2 ± 0.4	646.4 ± 47.5	7.6 ± 0.4

*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.

Experiment Number: 97008-03

Species/Strain: Rat/Fischer 344

P43: Terminal Sacrifice Hematology Data

Date Report Requested: 10/24/2014

Time Report Requested: 18:55:15

First Dose M/F: NA / NA

Lab: NA

FEMALE

Treatment Groups	Reticulocyte Count million per uL	Reticulocyte Percentage count per 100 RBC	Segmented Neutrophil Count 1000 per uL	Segmented Neutrophil Percentage %	White Blood Cell Count 1000 per uL
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Day 94

0 ppm	70.8 ± 74.4	17.2 ± 5.3	0.9 ± 0.3	14.1 ± 4.1	6.5 ± 1.6
4 ppm	79.2 ± 84.9	19.1 ± 5.3	0.9 ± 0.4	14.8 ± 6.2	6.5 ± 1.6
8 ppm	73.5 ± 77.9	17.4 ± 4.9	0.9 ± 0.4	14 ± 4.4	6.4 ± 1.7
16 ppm	65.5 ± 68.7	18.2 ± 5.4	0.8 ± 0.4	12.6 ± 6.2	6.6 ± 1.2
32 ppm	116.8 ± 77.8*	19.8 ± 5.7	0.8 ± 0.2	11.4 ± 4.8	7.1 ± 1.5
64 ppm	177.8 ± 40.1**	23.6 ± 5.4**	0.8 ± 0.3	11.2 ± 4.9	7.4 ± 1.9

** END OF REPORT **

*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.