

Study Number: C08022

Test Type: TOX

Route: Nose-Only Inhalation

Species/Strain: Mouse/B6C3F1/N

Study Number:

Study Gender:

PWG Approval Date

PA43: Hematology Summary

Test Compound: Aspergillus fumigatus mold

CAS Number: ASPERGILLUS

C08022

Both

See web page for date of PWG Approval

Date Report Requested: 05/05/2020

Time Report Requested: 12:14:17

Lab: Battelle

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Male

	Phase Day	Treatment Groups (Air)		
		Air Control	Heat Inactivated Particle Control	Viable Aspergillus fumigatus
Hematocrit (%)	SD 87	47.3 ± 0.4 (10)	47.1 ± 0.3 (10)	46.9 ± 0.5 (10)
Hemoglobin (g/dL)	SD 87	14.9 ± 0.1 (10)	14.8 ± 0.1 (10)	14.8 ± 0.1 (10)
Erythrocytes (10 ⁶ /uL)	SD 87	10.02 ± 0.06 (10)	9.98 ± 0.04 (10)	9.95 ± 0.09 (10)
Reticulocytes (10 ³ /uL)	SD 87	365.2 ± 8.4 (10)	365.4 ± 6.3 (10)	361.0 ± 9.4 (10)
Mean Cell Volume (fL)	SD 87	47.2 ± 0.2 (10)	47.2 ± 0.2 (10)	47.2 ± 0.2 (10)
Mean Cell Hemoglobin (pg)	SD 87	14.9 ± 0.1 (10)	14.8 ± 0.0 (10)	14.9 ± 0.1 (10)
Mean Cell Hemoglobin Concentration (g/dL)	SD 87	31.6 ± 0.2 (10)	31.4 ± 0.1 (10)	31.5 ± 0.2 (10)
Platelets (10 ³ /uL)	SD 87	737 ± 11 (10)	727 ± 17 (10)	715 ± 30 (10)
White Blood Cells (10 ³ /uL)	SD 87	3.47 ± 0.16 (10)	2.87 ± 0.23 (10)	4.32 ± 0.37 (10) ##
Neutrophils (10 ³ /uL)	SD 87	0.56 ± 0.04 (10)	0.49 ± 0.04 (10)	0.97 ± 0.10 (10) * ##
Lymphocytes (10 ³ /uL)	SD 87	2.79 ± 0.14 (10)	2.28 ± 0.21 (10)	3.07 ± 0.26 (10) #
Monocytes (10 ³ /uL)	SD 87	0.02 ± 0.01 (10)	0.02 ± 0.01 (10)	0.07 ± 0.03 (10) ##
Basophils (10 ³ /uL)	SD 87	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)
Eosinophils (10 ³ /uL)	SD 87	0.10 ± 0.01 (10)	0.08 ± 0.00 (10)	0.20 ± 0.03 (10) ##

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Female

	Phase Day	Treatment Groups (Air)		
		Air Control	Heat Inactivated Particle Control	Viable Aspergillus fumigatus
Hematocrit (%)	SD 87	46.8 ± 0.4 (8)	45.9 ± 0.7 (9)	47.9 ± 0.6 (9)
Hemoglobin (g/dL)	SD 87	14.9 ± 0.1 (8)	14.7 ± 0.2 (9)	15.3 ± 0.2 (9)
Erythrocytes (10 ⁶ /uL)	SD 87	9.98 ± 0.06 (8)	9.74 ± 0.16 (9)	10.22 ± 0.10 (9) #
Reticulocytes (10 ³ /uL)	SD 87	366.7 ± 13.4 (8)	372.7 ± 17.6 (9)	370.8 ± 12.9 (9)
Mean Cell Volume (fL)	SD 87	46.9 ± 0.2 (8)	47.1 ± 0.2 (9)	46.8 ± 0.2 (9)
Mean Cell Hemoglobin (pg)	SD 87	14.9 ± 0.0 (8)	15.1 ± 0.1 (9)	14.9 ± 0.1 (9)
Mean Cell Hemoglobin Concentration (g/dL)	SD 87	31.8 ± 0.2 (8)	32.1 ± 0.1 (9)	31.9 ± 0.2 (9)
Platelets (10 ³ /uL)	SD 87	677 ± 34 (8)	685 ± 22 (9)	630 ± 34 (9)
White Blood Cells (10 ³ /uL)	SD 87	2.94 ± 0.33 (8)	2.85 ± 0.22 (9)	3.91 ± 0.42 (9)
Neutrophils (10 ³ /uL)	SD 87	0.39 ± 0.05 (8)	0.43 ± 0.04 (9)	0.62 ± 0.07 (9)
Lymphocytes (10 ³ /uL)	SD 87	2.47 ± 0.27 (8)	2.32 ± 0.20 (9)	3.07 ± 0.35 (9)
Monocytes (10 ³ /uL)	SD 87	0.03 ± 0.01 (8)	0.03 ± 0.01 (9)	0.09 ± 0.04 (9)
Basophils (10 ³ /uL)	SD 87	0.00 ± 0.00 (8)	0.00 ± 0.00 (9)	0.00 ± 0.00 (9)
Eosinophils (10 ³ /uL)	SD 87	0.06 ± 0.01 (8)	0.07 ± 0.01 (9)	0.12 ± 0.02 (9)

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LEGEND

Values are displayed as mean \pm SEM (N).

SD – Study Day

Pairwise comparisons of Heat Inactivated Particle Control vs. Air Control, Viable A. Fumigatus vs. Air Control, and Viable A. Fumigatus vs. Heat Inactivated Particle Control were performed using Dunn's test. No trend test was performed.

* Statistically significant pairwise difference from Air Control at $P \leq 0.05$

** Statistically significant pairwise difference from Air Control at $P \leq 0.01$

Statistically significant pairwise difference from Heat Inactivated Particle Control at $P \leq 0.05$

Statistically significant pairwise difference from Heat Inactivated Particle Control at $P \leq 0.01$

One female from the Air Control group and one female from the Viable Aspergillus fumigatus group were removed from the analysis due to implausible values.

**** END OF REPORT ****