

**Study Number:** C04052

**Test Type:** TOX

**Route:** Nose-Only Inhalation

**Species/Strain:** Mouse/B6C3F1/N

**PA43: Hematology Summary**

**Test Compound:** Stachybotrys chartarum

**CAS Number:** 67892-26-6

**Date Report Requested:** 11/15/2021

**Time Report Requested:** 14:33:00

**Lab:** Battelle

**Study Number:**

C04052

**Study Gender:**

Both

**PWG Approval Date:**

See web page for date of PWG Approval

**Version:**

v1.3.3-2-g40295ca

**Stat Version:**

S

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Male

	Phase Day	Treatment Groups (Air)		
		Air Control	Heat Inactivated Particle Control	Viable Stachybotrys chartarum
Hematocrit (%)	SD 88	45.6 ± 0.7 (9)	46.9 ± 0.2 (9)	44.6 ± 2.1 (10)
Hemoglobin (g/dL)	SD 88	14.4 ± 0.2 (9)	14.8 ± 0.1 (9)	14.3 ± 0.6 (10)
Erythrocytes (10 <sup>6</sup> /uL)	SD 88	9.70 ± 0.13 (9)	9.96 ± 0.03 (9)	9.60 ± 0.42 (10)
Reticulocytes (10 <sup>3</sup> /uL)	SD 88	392.2 ± 6.8 (9)	369.1 ± 5.5 (9)	348.2 ± 19.9 (10)
Mean Cell Volume (fL)	SD 88	47.0 ± 0.1 (9)	47.1 ± 0.1 (9)	46.5 ± 0.2 (10) #
Mean Cell Hemoglobin (pg)	SD 88	14.9 ± 0.0 (9)	14.8 ± 0.0 (9)	14.9 ± 0.1 (10)
Mean Cell Hemoglobin Concentration (g/dL)	SD 88	31.7 ± 0.1 (9)	31.5 ± 0.1 (9)	32.1 ± 0.3 (10)
Platelets (10 <sup>3</sup> /uL)	SD 88	730 ± 41 (9)	777 ± 44 (9)	720 ± 79 (9)
White Blood Cells (10 <sup>3</sup> /uL)	SD 88	3.25 ± 0.29 (9)	3.84 ± 0.20 (9)	3.77 ± 0.38 (10)
Neutrophils (10 <sup>3</sup> /uL)	SD 88	0.58 ± 0.04 (9)	0.63 ± 0.06 (9)	0.48 ± 0.04 (10)
Lymphocytes (10 <sup>3</sup> /uL)	SD 88	2.52 ± 0.25 (9)	3.03 ± 0.16 (9)	2.96 ± 0.34 (10)
Monocytes (10 <sup>3</sup> /uL)	SD 88	0.03 ± 0.01 (9)	0.03 ± 0.00 (9)	0.08 ± 0.04 (10)
Basophils (10 <sup>3</sup> /uL)	SD 88	0.00 ± 0.00 (9)	0.01 ± 0.00 (9)	0.01 ± 0.00 (10)
Eosinophils (10 <sup>3</sup> /uL)	SD 88	0.12 ± 0.01 (9)	0.14 ± 0.03 (9)	0.25 ± 0.03 (10) ** ##

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Female

	Phase Day	Treatment Groups (Air)		
		Air Control	Heat Inactivated Particle Control	Viable Stachybotrys chartarum
Hematocrit (%)	SD 88	43.8 ± 0.9 (6)	40.9 ± 2.1 (9)	44.8 ± 0.5 (7)
Hemoglobin (g/dL)	SD 88	14.2 ± 0.3 (6)	13.3 ± 0.6 (9)	14.5 ± 0.1 (7)
Erythrocytes (10 <sup>6</sup> /uL)	SD 88	9.41 ± 0.19 (6)	8.84 ± 0.41 (9)	9.64 ± 0.11 (7)
Reticulocytes (10 <sup>3</sup> /uL)	SD 88	375.4 ± 8.3 (6)	346.1 ± 25.6 (9)	363.6 ± 23.4 (7)
Mean Cell Volume (fL)	SD 88	46.6 ± 0.2 (6)	46.2 ± 0.2 (9)	46.4 ± 0.3 (7)
Mean Cell Hemoglobin (pg)	SD 88	15.1 ± 0.1 (6)	15.1 ± 0.1 (9)	15.0 ± 0.1 (7)
Mean Cell Hemoglobin Concentration (g/dL)	SD 88	32.4 ± 0.2 (6)	32.7 ± 0.3 (9)	32.3 ± 0.1 (7)
Platelets (10 <sup>3</sup> /uL)	SD 88	611 ± 135 (4)	589 ± 79 (8)	776 ± 17 (7) #
White Blood Cells (10 <sup>3</sup> /uL)	SD 88	2.44 ± 0.40 (6)	1.88 ± 0.32 (9)	2.57 ± 0.31 (7)
Neutrophils (10 <sup>3</sup> /uL)	SD 88	0.70 ± 0.11 (6)	0.59 ± 0.22 (9)	0.67 ± 0.13 (7)
Lymphocytes (10 <sup>3</sup> /uL)	SD 88	1.66 ± 0.43 (6)	1.20 ± 0.20 (9)	1.74 ± 0.29 (7)
Monocytes (10 <sup>3</sup> /uL)	SD 88	0.02 ± 0.01 (6)	0.01 ± 0.00 (9)	0.05 ± 0.01 (7)
Basophils (10 <sup>3</sup> /uL)	SD 88	0.01 ± 0.00 (6)	0.00 ± 0.00 (9)	0.00 ± 0.00 (7)
Eosinophils (10 <sup>3</sup> /uL)	SD 88	0.06 ± 0.01 (6)	0.07 ± 0.01 (9)	0.11 ± 0.02 (7)

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LEGEND

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

SD – Study Day

Pairwise comparisons of Heat Inactivated Particle Control vs. Air Control, Viable Stachybotrys Chartarum vs. Air Control, and Heat Inactivated Particle Control vs. Viable Stachybotrys Chartarum 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  $P \leq 0.01$

Platelet counts for two females in the Air Control group, one female in the Heat Inactivated Particle Control group, and one male in the Viable Stachybotrys Chartarum group were excluded from the analysis due to implausible data.

Air Control = air vehicle control

Heat Inactivated Particle Control = non-viable biological particle

Viable Stachybotrys chartarum = test article of Stachybotrys chartarum

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