

**Study Number:** C08022

**Test Type:** TOX

**Route:** Nose-Only Inhalation

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

**Study Number:**

**Study Gender:**

**PWG Approval Date**

**PA06: Organ Weights Summary**

**Test Compound:** Aspergillus fumigatus mold

**CAS Number:** ASPERGILLUS

C08022

Both

See web page for date of PWG Approval

**Date Report Requested:** 05/11/2020

**Time Report Requested:** 07:52:28

**Lab:** Battelle

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Males

Treatment Groups (Air)

	Air Control			Heat Inactivated Particle Control			Viable Aspergillus fumigatus		
Terminal Body Wt. (g)	31.8	± 0.7	(10)	32.1	± 0.8	(10)	30.8	± 1.2	(10)
R. Epididymis									
Absolute (g)	0.0497	± 0.0020	(10)	0.0485	± 0.0019	(10)	0.0491	± 0.0023	(10)
Relative (mg/g)	1.58	± 0.09	(10)	1.52	± 0.08	(10)	1.61	± 0.09	(10)
L. Epididymis									
Absolute (g)	0.0502	± 0.0038	(10)	0.0473	± 0.0015	(10)	0.0489	± 0.0021	(10)
Relative (mg/g)	1.60	± 0.15	(10)	1.48	± 0.06	(10)	1.60	± 0.08	(10)
Heart									
Absolute (g)	0.14	± 0.00	(10)	0.15	± 0.00	(10) *	0.14	± 0.00	(10)
Relative (mg/g)	4.26	± 0.09	(10)	4.65	± 0.19	(10)	4.70	± 0.16	(10)
R. Kidney									
Absolute (g)	0.25	± 0.01	(10)	0.24	± 0.01	(10)	0.24	± 0.01	(10)
Relative (mg/g)	8.01	± 0.15	(10)	7.46	± 0.15	(10) *	7.85	± 0.14	(10)
L. Kidney									
Absolute (g)	0.23	± 0.01	(10)	0.23	± 0.01	(10)	0.23	± 0.01	(10)
Relative (mg/g)	7.39	± 0.20	(10)	7.18	± 0.22	(10)	7.43	± 0.14	(10)
Liver									
Absolute (g)	1.33	± 0.03	(10)	1.36	± 0.04	(10)	1.33	± 0.04	(10)
Relative (mg/g)	41.90	± 0.55	(10)	42.39	± 0.66	(10)	43.55	± 0.75	(10)
Lung									
Absolute (g)	0.21	± 0.01	(10)	0.22	± 0.01	(10)	0.30	± 0.01	(10) ** ##
Relative (mg/g)	6.71	± 0.26	(10)	6.81	± 0.27	(10)	9.89	± 0.60	(10) ** ##
R. Testis									
Absolute (g)	0.118	± 0.002	(10)	0.118	± 0.003	(10)	0.114	± 0.001	(10)
Relative (mg/g)	3.72	± 0.07	(10)	3.69	± 0.03	(10)	3.74	± 0.14	(10)
L. Testis									
Absolute (g)	0.113	± 0.002	(10)	0.115	± 0.002	(10)	0.113	± 0.002	(10)
Relative (mg/g)	3.56	± 0.07	(10)	3.59	± 0.05	(10)	3.71	± 0.11	(10)

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**Males**

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**Treatment Groups (Air)**

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	<b>Air Control</b>	<b>Heat Inactivated Particle Control</b>	<b>Viable Aspergillus fumigatus</b>
Thymus			
Absolute (g)	0.033 ± 0.002 (10)	0.036 ± 0.002 (10)	0.036 ± 0.003 (10)
Relative (mg/g)	1.04 ± 0.08 (10)	1.13 ± 0.06 (10)	1.14 ± 0.05 (10)

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**Females**

**Treatment Groups (Air)**

	Air Control			Heat Inactivated Particle Control			Viable Aspergillus fumigatus		
Terminal Body Wt. (g)	26.6	± 0.9	(9)	26.7	± 0.8	(9)	25.8	± 1.0	(10)
Heart									
Absolute (g)	0.11	± 0.00	(9)	0.11	± 0.00	(9)	0.11	± 0.00	(10)
Relative (mg/g)	4.08	± 0.14	(9)	4.27	± 0.17	(9)	4.35	± 0.23	(10)
R. Kidney									
Absolute (g)	0.14	± 0.00	(9)	0.14	± 0.00	(9)	0.14	± 0.00	(10)
Relative (mg/g)	5.21	± 0.19	(9)	5.41	± 0.12	(9)	5.50	± 0.16	(10)
L. Kidney									
Absolute (g)	0.13	± 0.00	(9)	0.13	± 0.00	(9)	0.13	± 0.00	(10)
Relative (mg/g)	4.87	± 0.14	(9)	4.94	± 0.09	(9)	5.00	± 0.17	(10)
Liver									
Absolute (g)	1.00	± 0.03	(9)	1.02	± 0.03	(9)	0.99	± 0.02	(10)
Relative (mg/g)	37.55	± 1.04	(9)	38.29	± 0.57	(9)	38.84	± 0.94	(10)
Lung									
Absolute (g)	0.19	± 0.01	(9)	0.21	± 0.01	(9)	0.32	± 0.01	(10) ** ##
Relative (mg/g)	7.17	± 0.15	(9)	7.90	± 0.35	(9)	12.53	± 0.66	(10) ** ##
R. Ovary									
Absolute (g)	0.0108 ± 0.0013	(8)		0.0131 ± 0.0011	(9)		0.0094 ± 0.0005	(10) #	
Relative (mg/g)	0.40	± 0.05	(8)	0.49	± 0.04	(9)	0.37	± 0.02	(10)
L. Ovary									
Absolute (g)	0.0099 ± 0.0009	(9)		0.0125 ± 0.0013	(9)		0.0094 ± 0.0006	(10)	
Relative (mg/g)	0.37	± 0.03	(9)	0.47	± 0.05	(9)	0.37	± 0.03	(10)
Thymus									
Absolute (g)	0.045	± 0.002	(9)	0.045	± 0.004	(9)	0.038	± 0.002	(10)
Relative (mg/g)	1.68	± 0.06	(9)	1.69	± 0.11	(9)	1.52	± 0.12	(10)

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## LEGEND

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Data are displayed as mean  $\pm$  SEM (N) unless otherwise noted.

Relative organ weights (organ-weight-to-body-weight ratios) are given as mg organ weight/g body weight

Pairwise comparisons of Biological Particle Control vs. Air Control, Test Article vs. Air Control, and Test Article vs. Biological Particle Control were performed using one-way ANOVA with post-hoc Tukey HSD test. No trend test was performed.

Statistical significance for Air Control group indicates a significant pairwise test compared to the Viable Aspergillus fumigatus group.

Statistical significance for Heat Inactivated Particle Control group indicates a significant pairwise test compared to the Viable Aspergillus fumigatus group.

\* 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 right ovary weight from the air control group was excluded from analysis because the value was implausible.

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