

**Study Number:** C04052

**Test Type:** TOX

**Route:** Nose-Only Inhalation

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

**Study Number:**

**Study Gender:**

**PWG Approval Date:**

**Version:**

**Stat Version:**

**PA10X: Statistical Analysis of Non-Neoplastic Lesions**

**Test Compound:** Stachybotrys chartarum

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

**Target Version:** Actions To Be Taken

C04052

Both

See web page for date of PWG Approval

v1.4.3

2021.08.20S

**Date Report Requested:** 02/02/2023

**Time Report Requested:** 14:03:48

**Lab:** Battelle

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**PA10X: Statistical Analysis of Non-Neoplastic Lesions**  
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Male			
	Treatment Groups		
	Air Control	Heat Inactivated Particle Control	Viable Stachybotrys chartarum
<b>Disposition Summary</b>			
Animals Initially In Study	10	10	10
Censored			
Early Deaths			
Sacrificed, Moribund	1		
Survivors			
Scheduled Sacrifice, Terminal	9	10	10
Number Animals Examined Microscopically	10	10	10
<b>ALIMENTARY SYSTEM</b>			
None			
<b>CARDIOVASCULAR SYSTEM</b>			
None			
<b>ENDOCRINE SYSTEM</b>			
THYROID GLAND	(10)	(10)	(10)
C-CELL; HYPERPLASIA	1 (10%)		
<b>GENERAL BODY SYSTEM</b>			
None			
<b>GENITAL SYSTEM</b>			
PREPUTIAL GLAND	(10)	(10)	(10)
INFLAMMATION; SUPPURATIVE	1 (10%)		
<b>HEMATOLYMPHOID SYSTEM</b>			
THYMUS	(10)	(10)	(10)
ECTOPIC TISSUE	1 (10%)	2 (20%)	

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Male

Treatment Groups

Air Control

Heat Inactivated Particle Control

Viable Stachybotrys chartarum

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

LARYNX	(10)	(10)	(10)
EPIGLOTTIS; METAPLASIA; SQUAMOUS			4 (40%) * #
LUNG	(10)	(10)	(10)
FUNGUS		1 (10%)	9 (90%) ** ##
BALT; HYPERPLASIA; LYMPHOCYTE			9 (90%) ** ##
BRONCHIOLE; EPITHELIUM; HYPERPLASIA			10 (100%) ** ##
ARTERY; HYPERTROPHY; MEDIAL			10 (100%) ** ##
INFILTRATION CELLULAR; HISTIOCYTE			10 (100%) ** ##
PERIVASCULAR; INFLAMMATION; CHRONIC-ACTIVE			10 (100%) ** ##
METAPLASIA; GOBLET CELL			10 (100%) ** ##
ARTERY; THROMBUS			3 (30%)

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

KIDNEY	(10)	(10)	(10)
CHRONIC PROGRESSIVE NEPHROPATHY			1 (10%)

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**Female**

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**Treatment Groups**

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	Air Control	Heat Inactivated Particle Control	Viable Stachybotrys chartarum
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**Disposition Summary**

Animals Initially In Study

10

10

10

Censored

Early Deaths

Survivors

Scheduled Sacrifice, Terminal

10

10

10

Number Animals Examined Microscopically

10

10

10

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**ALIMENTARY SYSTEM**

LIVER

(10)

(10)

(10)

INFLAMMATION; FOCAL

1 (10%)

SALIVARY GLAND

(10)

(10)

(10)

SUBMANDIBULAR; INFILTRATION, CELLULAR; LYMPHOCYTE

1 (10%)

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**CARDIOVASCULAR SYSTEM**

None

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**ENDOCRINE SYSTEM**

PARATHYROID GLAND

(10)

(9)

(10)

ECTOPIC TISSUE

1 (10%)

1 (10%)

THYROID GLAND

(10)

(10)

(10)

C-CELL; HYPERPLASIA

1 (10%)

1 (10%)

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**GENERAL BODY SYSTEM**

None

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**GENITAL SYSTEM**

None

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Treatment Groups

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<b>HEMATOLYMPHOID SYSTEM</b>			
LYMPH NODE, BRONCHIAL	(10)	(8)	(8)
FUNGUS			2 (25%)
HYPERPLASIA; LYMPHOCYTE			2 (25%)
THYMUS	(10)	(10)	(10)
CYST; MULTIPLE	3 (30%)	2 (20%)	
CYST	2 (20%)	4 (40%)	2 (20%)
<b>INTEGUMENTARY SYSTEM</b>			
None			
<b>MUSCULOSKELETAL SYSTEM</b>			
None			
<b>NERVOUS SYSTEM</b>			
None			
<b>RESPIRATORY SYSTEM</b>			
LARYNX	(10)	(9)	(10)
EPIGLOTTIS; METAPLASIA; SQUAMOUS		3 (33.3%)	7 (70%) **
LUNG	(10)	(10)	(10)
FUNGUS		9 (90%) **	10 (100%) **
BALT; HYPERPLASIA; LYMPHOCYTE			9 (90%) ** ##
BRONCHIOLE; EPITHELIUM; HYPERPLASIA			10 (100%) ** ##
ARTERY; HYPERTROPHY; MEDIAL			10 (100%) ** ##
INFILTRATION CELLULAR; HISTIOCYTE			10 (100%) ** ##
PERIVASCULAR; INFLAMMATION; CHRONIC-ACTIVE			10 (100%) ** ##
METAPLASIA; GOBLET CELL			10 (100%) ** ##
ARTERY; THROMBUS			1 (10%)

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**Female**

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**Treatment Groups**

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**Air Control**

**Heat Inactivated Particle  
Control**

**Viable Stachybotrys  
chartarum**

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**SPECIAL SENSES SYSTEM**

None

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**URINARY SYSTEM**

KIDNEY

CHRONIC PROGRESSIVE NEPHROPATHY

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(10)

(10)

(10)

1 (10%)

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## LEGEND

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In the rows with the tissue names, the number of animals examined for each tissue is shown in parentheses.

In the rows with the lesion names, the number of animals with observation are reported with percent incidence in parentheses. If none of the animals examined have the specific lesion, there is a blank for that dose group for that specific lesion. The exception to this is if statistical significance is found for a lesion and the control group has no animals with the lesion; in that case a 0 is included for the control group on the table for that lesion.

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 one-sided Fisher's exact tests. No trend tests are 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  $P \leq 0.01$

Air Control = air vehicle control

Heat Inactivated Particle Control = non-viable biological particle

Viable Stachybotrys chartarum = test article of Stachybotrys chartarum

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