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(800) 544-8156

PREPARED FOR: INSPECTORLAB

TEST ADDRESS: 5677 TAN OAK DRIVE CHICAGO, IL 60616

CERTIFICATE OF MOLD ANALYSIS

PREPARED FOR:

INSPECTORLAB

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TEST LOCATION:

DANIEL JONES

5677 TAN OAK DRIVE

CHICAGO, IL 60616

CHAIN OF CUSTODY #: 52027132

COLLECTED: FRI MARCH 20, 2015

RECEIVED: MON MARCH 23, 2015

REPORTED: MON MARCH 23, 2015

A handwritten signature in black ink that reads "John D. Shane".

**APPROVED BY: JOHN D. SHANE PH.D.,
LABORATORY MANAGER**

VERSION: 1.0 (A VERSION NUMBER GREATER THAN ONE (1) INDICATES THAT THE DATA IN THIS REPORT HAS BEEN AMENDED)

EPA regulations or standards for airborne or surface mold concentrations have not been established. There are also no EPA regulations or standards for evaluating health effects due to mold exposure. Information about mold can be found at www.epa.gov/mold.

All samples were received in an acceptable condition for analysis unless noted specifically in the Comments section under a particular sample. All results relate only to the samples submitted for analysis.

A version greater than 1.0 indicates that the lab report has been revised.

FOR MORE INFORMATION, PLEASE CONTACT INSPECTORLAB AT (800) 544-8156 OR EMAIL ASK@INSPECTORLAB.COM

Detailed Sample Report (NAMES IN RED ARE WATER-INDICATING FUNGI)

Analysis Method	Air Analysis	Air Analysis	Air Analysis	Surface Analysis
Lab Sample #	52027132-1	52027132-2	52027132-3	52027132-4
Sample Identification	93881281	98383871	93881836	SWAB #1
Sample Location	OUTSIDE CONTROL	MASTER BEDROOM	TV ROOM WEST WALL	TV ROOM CLOSET WALL
Sample Type / Metric	Air-O-Cell/150.0L	Air-O-Cell/150.0L	Air-O-Cell/150.0L	Swab
Analysis Date	Mon March 23, 2015	Mon March 23, 2015	Mon March 23, 2015	Mon March 23, 2015
Determination	CONTROL	NORMAL	PROBLEM	GROWTH

Fungal Types Identified	Raw Count	Spores / m ³	% of Total	Raw Count	Spores / m ³	% of Total	Raw Count	Spores / m ³	% of Total	Mold Present	
*INDOOR PROBLEM FUNGI											
Cladosporium sphaerospermum	---	---	---	---	---	---	81	543	13	X	
Memnoniella	---	---	---	---	---	---	6	40	<1	X	
Penicillium/Aspergillus	6	40	2	91	610	53	472	3162	75	X	
**Non-Problem Fungi											
Alternaria	7	47	2	---	---	---	3	20	<1	---	
Ascospores	19	127	7	21	141	12	---	---	---	---	
Basidiospores	21	141	8	7	47	4	9	60	1	---	
Bipolaris/Drechslera	5	34	2	1	7	<1	---	---	---	---	
Cladosporium	124	831	52	29	194	17	35	235	5	---	
Curvularia	7	47	2	3	20	1	---	---	---	---	
Epicoccum	6	40	2	2	13	1	---	---	---	---	
Nigrospora	3	20	1	1	7	<1	---	---	---	---	
Pithomyces	5	34	2	---	---	---	---	---	---	---	
Smut/Myxomycetes	31	208	13	14	94	8	17	114	2	---	
Tetraploa	1	7	<1	---	---	---	---	---	---	---	
Unclassified Pigmented Spores	2	13	<1	---	---	---	---	---	---	---	
Total Spore Count	237	1589	100	169	1133	100	623	4174	100	N/A	
Minimum Detection Limit	7			7			7			N/A	
Comments	CONTROL samples are normally taken outside a building to provide a baseline from which samples on the interior of the building are compared. Outside air is considered normal whatever the mold counts may be. Light Debris: The debris present in the sample likely had no effect on the accuracy of the mold count.			Mold counts are within a NORMAL RANGE and there is no indication, based on the mold counts, that there is any exposure concern to the occupants. The LIGHT DEBRIS present in the sample likely had no effect on the accuracy of the mold count.			Mold concentrations in the air are ABNORMAL and based on the mold counts, you likely have a mold source from which spores are able to become airborne and are an exposure concern to the occupants. Moderate Debris in the sample likely had limited affect on the accuracy of the mold count.			Presence of current or former MOLD GROWTH observed. EXPOSURE TO SPORES LIKELY and will continue if the growth is not removed. An active or intermittent water source will cause the mold to continue to grow if the water source is not eliminated.	

* Indoor Problem Fungi are generally capable of growing on wetted building materials.

** Non-Problem Fungi are less capable or do not grow on wetted building materials. They are commonly found in the air outside and infiltrate into indoor air naturally. High numbers of any one of these spore types as compared to the Control sample may indicate that they are growing on wetted building materials indoors.

Spore types not listed in this report were not observed.

Background debris estimates the amount of non-spore particles. Increasing amount of debris will affect the accuracy of the spore counts. Total percent may not equal 100% due to rounding.

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Introduction

All spores found in indoor air are also normally found in outdoor air because most originate or live in the soil and on dead or decaying plants. Therefore, it is not unusual to find mold spores in indoor air. This Mold Glossary is only intended to provide general information about the mold found in the samples that were provided to the laboratory.

Alternaria

Outdoor Habitat: One of the most commonly observed spores in the outdoor air worldwide, normally in low numbers.

Indoor Habitat: Capable of growing on a wide variety of substrates and manufactured products found indoors when wetted.

Allergy Potential: Type I (hay fever, asthma), Type III (hypersensitivity pneumonitis), Common cause of extrinsic asthma

Disease Potential: Not normally considered a pathogen, but can become so in immunocompromised persons.

Toxin Potential: Several known

Comments: One of the most common and potent allergens in the indoor and outdoor air. Seen in indoor air in low concentrations, probably as a result of outdoor air infiltration and/or recycling of settled dust.

Ascospores

Outdoor Habitat: Soil and decaying vegetation, dead and dying insects. These spores constitute a large part of the spores in the air and can be found in the air in very large numbers in the spring and summer, especially during and up to three (3) days after a rain.

Indoor Habitat: Very few of fungi that produce ascospores grow indoors. Some fungi that produce ascospores are recognizable by their spores and when observed are listed under their own categories. Wetted wood and gypsum wallboard paper

Allergy Potential: Depends on the type of fungus producing the ascospores.

Disease Potential: Not normally pathogenic as a group

Toxin Potential: None known

Comments: Ascospores are produced from a very large group of fungi. Notable ascospores that are considered problematic for indoor environments are Chaetomium, Peziza, and Ascotracha. If these types of ascspores are observed they will be listed in the report under their own names.

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Basidiospores

Outdoor Habitat: These are mushroom spores and are common everywhere, especially in the late summer and fall.

Indoor Habitat: Very wet wood products, especially on footer plates, basements, and crawlspaces. Sometimes mushrooms can be observed growing in potted plants indoors.

Allergy Potential: Rarely reported, but some Type I (hay fever, asthma) and Type III (hypersensitivity pneumonitis) has been reported.

Disease Potential: None known

Toxin Potential: None known

Comments: This group includes wood rotting fungi, including dry rot (*Serpula* and *Poria*) that are especially destructive to buildings. However, if these types of spores (dry rot group) are observed in the sample they are listed under their own names on the report.

Bipolaris/Drechslera

Outdoor Habitat: Commonly observed spores in the outdoor air worldwide, normally in low numbers.

Indoor Habitat: Wetted wood and gypsum wallboard paper

Allergy Potential: Type I (hay fever, asthma)

Disease Potential: Opportunistic pathogen in immunocompromised persons, not normally a pathogen in healthy individuals.

Toxin Potential: None known

Comments: This category represents at least three genera, including *Bipolaris*, *Drechslera*, and *Exserohilum*. This group cannot be consistently separated by spore morphology alone.

Cladosporium

Outdoor Habitat: Soil and decaying vegetation

Indoor Habitat: Wetted wood and gypsum wallboard paper, paper products, textiles, rubber, window sills

Allergy Potential: Type I (hay fever, asthma) - an important and common outdoor allergen

Disease Potential: Opportunistic pathogen in immunocompromised persons, not normally a pathogen in healthy individuals.

Toxin Potential: Two known, but not highly toxic

Comments: The most commonly reported spore in the outdoor air worldwide. An important and common allergen source.

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Cladosporium sphaerospermum**Outdoor Habitat:** Dead or dying cellulosic materials like wood and leaves.**Indoor Habitat:** A favorite place for this mold type to grow is on wetted or rotting window sills. Also likes to grow on all type of wetted or rotting wood.**Allergy Potential:** Type I (hay fever, asthma) - an important and common outdoor allergen**Disease Potential:** Opportunistic pathogen in immunocompromised persons, not normally a pathogen in healthy individuals.**Toxin Potential:** None known**Comments:** A common mold on wetted wood, especially on window sills. Not frequently found in the air.***Curvularia*****Outdoor Habitat:** Soil and decaying vegetation**Indoor Habitat:** Wetted wood and gypsum wallboard paper, many cellulytic substrates**Allergy Potential:** Type I (hay fever, asthma), common cause of allergenic rhinitis**Disease Potential:** Potential human pathogen in immunocompromised people**Toxin Potential:** None known**Comments:** None***Epicoccum*****Outdoor Habitat:** Soil and decaying vegetation**Indoor Habitat:** Capable of growing on a wide variety of substrates and manufactured products found indoors when wetted.**Allergy Potential:** Type I (hay fever, asthma)**Disease Potential:** None known**Toxin Potential:** None known**Comments:** Very common in outdoor air in the summer months, especially in the midwest USA during harvest times.

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Memnoniella

Outdoor Habitat: A cosmopolitan fungus but are more common in tropical and subtropical areas, usually in soil and plant debris but also inside buildings, especially on all materials containing cellulose.

Indoor Habitat: Isolated from wood, gypsum wallboard paper, textiles, paper and ceiling tiles

Allergy Potential: Type I (hay fever, asthma), rhinitis

Disease Potential: None known

Toxin Potential: trichothecene (s) [trichodermol, trichodermin, verrucarol]
griseofulvin (s) [dechlorogriseofulvine, epidechlorogriseofulvine]
phenylspirodrimane (s)

Comments: Spores can be dispersed into the air when old and dry.

Nigrospora

Outdoor Habitat: Soil and decaying vegetation

Indoor Habitat: Wetted wood and gypsum wallboard paper

Allergy Potential: Type I (hay fever, asthma)

Disease Potential: None known

Toxin Potential: None known

Comments: Rarely observed growing indoors

Penicillium/Aspergillus

Outdoor Habitat: Soil and decaying vegetation, textiles, fruits. These spores are commonly observed and are a normal part of outside air.

Indoor Habitat: Wetted wood and gypsum wallboard paper, textiles, leather, able to grow on many types of substrates.

Allergy Potential: Type I (hay fever, asthma), Type III (hypersensitivity pneumonitis)

Disease Potential: Opportunistic pathogen in immunocompromised persons, not normally a pathogen in healthy individuals.

Toxin Potential: Several known

Comments: Extremely common in indoor air . Grouped into this combination genus category because they are not identifiable into their respective genera based solely on spore type.

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Pithomyces**Outdoor Habitat:** Soil and decaying vegetation and their spores are easily dispersed into the air by wind**Indoor Habitat:** Wetted wood and gypsum wallboard paper**Allergy Potential:** None known**Disease Potential:** None known**Toxin Potential:** One known (sporidesmin)**Comments:** A very common spore type in the air. Can be a water indicator mold type indoors***Smut/Myxomycetes*****Outdoor Habitat:** Soil and decaying vegetation and wood, especially dead stumps and bark**Indoor Habitat:** Not known to grow indoors, sometimes found on firewood**Allergy Potential:** Type I (hay fever, asthma), rare**Disease Potential:** None known**Toxin Potential:** None known**Comments:** These two groups are difficult to distinguish due to their "round, brown" morphology. Smuts are especially common in the environment and can be seen in indoor air samples even during the winter in homes because the spores can get trapped in carpets***Tetraploa*****Outdoor Habitat:** Soil and decaying vegetation**Indoor Habitat:** Not known to grow indoors**Allergy Potential:** None known**Disease Potential:** None known**Toxin Potential:** None known**Comments:** Spores are very heavy and not easily dispersed into the air by wind

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Unclassified Pigmented Spores

Outdoor Habitat: None specified

Indoor Habitat: None specified

Allergy Potential: Unknown

Disease Potential: None known

Toxin Potential: Unknown

Comments: Unknown colored spores have at least some color and do not have enough distinctive identifying characteristics to be classified as any other particular type of spore. .
