

3301 N.W. 55th St., Ft. Lauderdale, FL 33309 | 888-854-0477

PREPARED FOR: INSPECTOVA



CERTIFICATE OF MOLD ANALYSIS

PREPARED FOR

INSPECTOVA

PHONE NUMBER: (631) 975-2362

EMAIL: INSPECTOVA@GMAIL.COM

CHAIN OF CUSTODY # 52823208

APPROVED BY:

John D. Shane PhD 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 and apply to the samples as received by the laboratory. Volumes, flowrates, areas or other information are supplied by the customer. This information can affect the validity of the results. Results have not been adjusted for field or laboratory unless otherwise noted. PriorityLab bears no responsibility for sample collection activities or analytical method limitations. No warranty is either express or implied and PriorityLab assumes no responsibility or liability for errors in public information utilized, statements from sources other than PriorityLab, or developments resulting from situations outside the scope of this analysis, nor for the purpose for which the client uses the analysis. The determinations in this report are outside the scope of the AIHA LAP, LLC scope of accreditation. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. PriorityLab liability is limited to the cost of the sample analysis and may not exceed the amount of the fee paid by the client.

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Detailed Mold Report (WATER-INDICATING FUNGI, IF PRESENT, ARE SHOWN BELOW IN RED)

	<u> </u>											
Analysis Method	Air Analysis			Air Analysis			Air Analysis			Surface Analysis		
Lab Sample #	52823208-1			52823208-2			52823208-3			52823208-4		
Sample Identification	19871916			19871950			19872409			14957292		
Sample Location	KITCHEN			BASEMENT FINISHED AREA			OUTSIDE			BASEMENT CLOSET LEFT WALL		
Sample Type / Metric	Breeze ST/150L			Breeze ST/150L			Breeze ST/150L			Swab		
Analysis Date	Wed May 22, 2024			Wed May 22, 2024			Wed May 22, 2024			Wed May 22, 2024		
Determination	NORMAL			PROBLEM			CONTROL			GROWTH		
Fungal Types Identified	Raw Count	Spores /	% of Total	Raw Count	Spores /	% of Total	Raw Count	Spores /	% of Total		Mold Present	
*INDOOR PROBLEM FUNGI												
Hyphae											Present	
Penicillium/Aspergillus				859	5,755	92					Present	
Stachybotrys				62	415	6					Present	
**Non-Problem Fungi												
Alternaria							8	54	2			
Ascospores	2	13	2	2	13	<1	81	543	24			
Basidiospores	2	13	2	3	20	<1	94	630	28			
Cladosporium	27	181	32	4	27	<1	147	985	43			
Epicoccum							5	34	1			
Penicillium/Aspergillus	52	348	62	*	*	*					*	
Total Spore Count#	83	560	100	930	6,200	100	340	2,200	100		NA	
Minimum Detection Limit	7			7			7			1		
Comments/Definitions Raw Count: Actual number of spores observed and counted. Spores/m³: Spores per cubic meter. % of Total: Percentage of a particular spore in relation to total number of spores. Present = growth observed: Spore type was not observed. * : Indicates to look above at the names in red under "indoor problem fungi".	NORMAL no indicati mold coun exposure c occupants. DEBRIS: T the sample	ts are within RANGE and on, based of ts, that there oncern to the MODERA' he debris publically accuracy to the contraction of the debris publically and the accuracy to the second of the second of the contraction of the second	nd there is n the e is any ne TE resent in imited	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 a limited effect on the accuracy of the mold count.			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.			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.

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.

^{**} 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.

^{*}Total Spore Counts are reported to 2 significant figures.



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. However, it is frequently found

growing on indoor substrates.

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 Ascotricha. If these types of ascspores are observed they will be listed

in the report under their own names.



Basidiospores

Outdoor Habitat: These are mushroom spores and are common everywhere outside, especially in

the late summer and fall.

Indoor Habitat: 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: Mushroom spores are commonly found indoors, especially when the outdoor

spore count is high. When spores of this group are derived from wood rotting fungi, including dry rot (Serpula and Poria), they can be especially destructive to buildings. When spores from destructive types of mushrooms (dry and wet rot group) are observed in the sample they are listed under their own names on the

report.

Cladosporium

Outdoor Habitat: Cladosporium is one of the most common environmental fungi observed

worldwide and is widely reported from soil and decaying vegetation.

Cladosporium herbarum and C. cladosporioides are among the most frequently

encountered species, both in outdoor and indoor environments.

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

window sills. Cladosporium has the ability to grow at low temperatures and can

thus, grow on rubber gaskets and food in refrigerators.

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. Cladosporium are some of the most common species reported as indoor contaminants, occasionally linked to health problems.

Toxin Potential: Cladosporium has two known toxins (cladosporin and emodin). These toxins are

not known to be highly toxic. There is no evidence in the literature of toxic effects

associated to inhalation of Cladosporium conidia (spores) indoors.

Comments: The most commonly reported spore in the outdoor air worldwide. This makes

Cladosporium one of the most commonly reported and abundant spore types both indoors and outdoors. The prevalence of this spore can vary throughout the

year, but is especially high in late summer and autumn, especially where cereal

crops are commonly planted.

An important and common allergen source.



Epicoccum

Outdoor Habitat: Epicoccum is a widespread cosmopolitan that grows on dead or decaying organic

matter, wood, textiles, paper, a variety of foods, insects and human skin. It is commonly found in the soil. Epicoccum spores are more prevalent on dry, windy

days, with higher counts late in the day.

Indoor Habitat: Capable of growing on a wide variety of substrates and manufactured products

found indoors when wetted such as gypsum board, floors, carpets, mattress dust,

and house plants.

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.

Hyphae

Outdoor Habitat: Any cellulose-based substance that fungi can inhabit.

Indoor Habitat: Wetted wood and gypsum wallboard paper, etc.

Allergy Potential: Known to be allergenic.

Disease Potential: None known **Toxin Potential:** None known

Comments: "Root-like" structures of fungal growth that can become airborne and can

possibly be allergenic.

When hyphae are found growing on a surface and associated with fruiting bodies and/or fungal spores, they indicate that growth has taken. Sometimes hyphae grow and do not produce spores. Hyphae are generally not specific to any

particular type of fungus or mold type.

A mass of hyphae on a surface is indicative of mold growth.



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 in low to moderate amounts as compared to the

outside air. This type of spore should not be present in very high numbers as compared to the outside (control) nor constitute an overwhelming percentage (e.g., 90% or greater) of the total spores in that room(s). However, this type of mold spore is not always detected in outside air and when diversity of mold types are low in the indoor sample(s), their percentage can be 90% or more. Therefore, when the raw numbers are low the determination would be NORMAL even if the

percentage is high.

There is a wide range of what is a NORMAL amount of this type of mold spores in indoor air and 200 - 700 spores per cubic meter are commonly seen in homes.

These two genera are grouped together because they cannot be reliably differentiated into their respective genera based solely on spore morphology.

Stachybotrys

Outdoor Habitat: Soil and decaying vegetation, especially straw

Indoor Habitat: Wetted wood, gypsum wallboard paper, cardboard boxes and ceiling tiles. This

type of mold needs significant water to grow and thrive

Allergy Potential: Type I (hay fever, asthma)

Disease Potential: None known

Toxin Potential: Several known (including macrocyclic trichothecenes, satratoxin F, G, H)

Comments: Spores can be dispersed into the air when old and dry, but are wet, slimy and

heavy when actively growing and thus are not easily dispersed into the air. Significantly higher numbers of spores, as compared to outside background levels, of this genus are not normal for indoor environments and indicate a current or former water problem. It is not that unusual to find the occasional Stachybotrys spore in the air indoors. Stachybotrys has several mycotoxins and has been implicated as a causative agent in disease. HIGH CONCENTRATIONS AND LONG EXPOSURES TO STACHYBOTRYS SHOULD BE AVOIDED.