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

PREPARED FOR: BLACKWOLF PROFESSIONAL PROPERTY SERVICES LLC

TEST ADDRESS: 272 BERRY PATCH ROAD MURPHY, NC 28906



CERTIFICATE OF MOLD ANALYSIS

PREPARED FOR

BLACKWOLF PROFESSIONAL PROPERTY SERVICES LLC

PHONE NUMBER: (828) 360-2986

EMAIL: PJCOFIELD1@GMAIL.COM

TEST LOCATION:

PAMELA COFIELD

272 BERRY PATCH ROAD

MURPHY, NC 28906

CHAIN OF CUSTODY # 52886364

COLLECTED: TUE OCTOBER 22, 2024

RECEIVED: THU OCTOBER 24, 2024

REPORTED: THU OCTOBER 24, 2024

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 Analysis (water-indicating fungi, if present, are shown below in red)

Detailed Mold A	Allai,	y 51 5	(WAIEK-	INDICATI	NG FUNGI	, IF PRESE	ENT, ARE S	HOWN BI	LOW IN B	(ED)		
Analysis Method	Air Analysis			Air Analysis			Surface Analysis			Surface Analysis		
Lab Sample #	52886364-1			52886364-2			52886364-3			52886364-4		
Sample Identification	38062603			38062703			445288			SWAB 1		
Sample Location	KITCHEN			OUTSIDE			KITCHEN			BEDROOM 1		
Sample Type / Metric	Air-O-Cell/150L			Air-O-Cell/150L			Bio-Tape			Swab		
Analysis Date	Thu October 24, 2024			Thu October 24, 2024			Thu October 24, 2024			Thu October 24, 2024		
Determination	NORMAL			CONTROL			NO GROWTH			GROWTH		
Fungal Types Identified	Raw Count	Spores /	% of Total	Raw Count	Spores /	% of Total		Mold Present			Mold Present	
*INDOOR PROBLEM FUNGI				•			•			•		•
Aspergillus											Present	
Hyphae											Present	
**Non-Problem Fungi	-	-	-	-			-		-	-	<u>-</u>	-
Alternaria				1	7	<1						
Ascospores	8	54	8	107	717	2						
Basidiospores	52	348	54	3,363	22,532	92						
Cladosporium	6	40	6	42	281	1						
Curvularia	7	47	7									
Nigrospora	3	20	3	1	7	<1						
Penicillium/Aspergillus	4	27	4	102	683	2						
Pithomyces	8	54	8	1	7	<1						
Polythrincium				1	7	<1						
Rusts	1	7	1									
Smut/Myxomycetes	2	13	2	14	94	<1						
Spegazzinia	1	7	1									
Torula	1	7	1									
Unclassified Pigmented Spores	3	20	3	2	13	<1						
Total Spore Count#	96	640	100	3,600	24,000	100		NA			NA	
Minimum Detection Limit	7			7			1			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".	no indication, based on the mold counts, that there is any exposure concern to the occupants. The LIGHT DEBRIS			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. The LIGHT DEBRIS present in the sample likely had no effect on the accuracy of the mold count.			NO GROWTH or former mold growth observed. There may be some settled spores in the sample. Some settled spores on surfaces are normal. Settled spores are below the reporting limit for the laboratory. This means that the presence of settled spores do not affect the determination. Surfaces will not grow mold as long as they do not get wet for longer than 24 to 48 hours.					

^{*} 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.

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

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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. 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.

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Aspergillus

Outdoor Habitat: Soil and decaying vegetation, various other kinds of substrates

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

found indoors when wetted, including dusts, leather, paint, paper, rubber, textiles

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

allergenic sinusitis, and ABPA (allergenic bronchpulmonary aspergillosis)

Disease Potential: Second most common pathogen for humans next to Candida, but not normally

considered a pathogen, but can become so in immunocompromised persons.

Toxin Potential: Several species of Aspergillus produce toxins, including aflatoxin B1 & B2,

cyclopiazonic acid, kojic acid, ergot alkaloids, fumigaclavines, gliotoxin, fumigatoxin, fumigillin, fumitremorgens, helvolic acid, tryptoquivaline

tremorgens, verruculogen, malformin C, oxalic acid, austocystins, aspercolorin,

averufin, cyclopiazonic acid, sterigmatocystin, versicolorin.

Comments: Aspergillus niger-like spores are the most common group identified in the indoor

air.

Aspergillus identified in air samples indicates that the fruiting bodies were observed. This usually suggests that the source of the mold is nearby and / or a growth was disturbed. The fruiting bodies are not easily sent airborne, nor do

they stay in the air long.

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.

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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.

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

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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.

Nigrospora

Outdoor Habitat: Soil and decaying vegetation

Indoor Habitat: Can grow on 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, but is often found in the indoor air in small

amounts because this spore type is frequently found in outdoor air.

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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.

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 outdoor air. Can be a water indicator mold type

when growing on surfaces indoors.

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Polythrincium

Outdoor Habitat: Leaves, especially on alfalfa Indoor Habitat: Not known to grow indoors

Allergy Potential: None known Disease Potential: None known Toxin Potential: None known

Comments: Spores easily dispersed into the air by wind

Rusts

Outdoor Habitat: Parasitic on living plants

Indoor Habitat: Not known to grow indoors, unless on and infected living house plant

Allergy Potential: Type I (hay fever, asthma)

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

Comments: Common and abundant plant pathogen and are normally robust spores that can

persistent indoors, especially from carpets and dirty HVAC systems

Smut/Myxomycetes

Outdoor Habitat: Soil and decaying vegetation and wood, especially dead stumps and bark

Indoor Habitat: Not normally known to grow indoors. However the Myxomycetes can sometimes

be found on firewood inside the home and especially on wood paneling.

Sometimes known to grow on wood framing inside walls, ceilings and woodwork

in closets.

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 and brown"

morphology. Smuts are especially common in the outside environment and can be seen in indoor air samples even during the winter in homes because the spores enter homes. These spores can be recycled through the indoor environment all

year in small amounts.

A large number of these types of spores indoors can mean that there are fruiting bodies inside the home due to excessive water, usually on a wood surface(s).

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Spegazzinia

Outdoor Habitat: Soil and decaying vegetation, especially in St. Augustine grass

Indoor Habitat: Not known to grow indoors

Allergy Potential: None known Disease Potential: None known Toxin Potential: None known

Comments: A common mold found in St. Augustine grass and other decaying vegetation

Torula

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: Grows on wood and wicker, and sometimes on wallboard indoors.

Unclassified Pigmented Spores

Outdoor Habitat: None specified Indoor Habitat: None specified

Allergy Potential: Although no specific allergic potential can be given, ALL spores have the

potential to be allergenic.

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

Comments: This category is for unknown spores that have at least some color and do not

have enough distinctive characteristics to be identified as any particular type of

spore that the laboratory recognizes.

There are a great many spore types that cannot be identified either because they are undescribed in the literature or new to science. Therefore, these types of spores are classified as "unclassified". There should not be an over abundance of this type of spore (or any spore) indoors. An large amount of this type of spore indoors would make this spore type as "water-indicating", but the origin and

growth is not known.