

PREPARED FOR: ACE MOLD INSPECTION, LLC TEST ADDRESS: 2239 RTE 1-S NORTH BRUNSWICK, NJ 08902



# CERTIFICATE OF MOLD ANALYSIS

#### PREPARED FOR:

ACE MOLD INSPECTION, LLC

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EMAIL: FRANKBABINO@GMAIL.COM

TEST LOCATION:
ACELERO LEARNING NORTH BRUNSWICK
2239 RTE 1-S
NORTH BRUNSWICK, NJ 08902
CHAIN OF CUSTODY # 52494542

COLLECTED: MON SEPTEMBER 20, 2021

RECEIVED: TUE SEPTEMBER 21, 2021

REPORTED: TUE SEPTEMBER 21, 2021

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. InspectorLab bears no responsibility for sample collection activities or analytical method limitations. No warranty is either express or implied and InspectorLab assumes no responsibility or liability for error in public information utilized, statements from sources other than InspectorLab, 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. InspectorLab 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)

| Detailed Mold I  | <b>xcpo</b>   | 1 t  | (WILLER   | nibion  | IIII III   | , , , , , , , , , , , , , , , , , , ,               | REDEIVI,   | THE OTTO   | WIN DEE  |   | <i>1</i> <b>D</b> ) |               |  |
|--|---|--|---|---|--|---|--|--|--|---|---------------------|---------------|--|
| Analysis Method  | Air Analysis  |  |   | Air Analysis  |  |   | Air Analysis   |  |  | Air Analysis  |                     |               |  |
| Lab Sample #   | 52494542-1  |  |   | 5   | 52494542-2   |   |  | 52494542-3   |  |   | 52494542-4          |               |  |
| Sample Identification  | 13851808  |  |   | 33411240  |  |   | 33411253   |  |  | 33411233  |                     |               |  |
| Sample Location  | CONTROLLED  |  |   | INFANT TODDLER<br>FRONT   |  |   | INFANT TODDLER REAR  |  |  | CLASSROOM #3  |                     |               |  |
| Sample Type / Metric   | Breeze ST/150L  |  |   | Air-O-Cell/150L   |  |   | Air-O-Cell/150L  |  |  | Air-O-Cell/150L   |                     |               |  |
| Analysis Date  | Tue September 21, 2021  |  |   | Tue September 21, 2021  |  |   | Tue September 21, 2021   |  |  | Tue September 21, 2021  |                     |               |  |
| Determination  | CONTROL   |  | NORMAL  |   |  | NORMAL  |  |  | NORMAL   |   |                     |               |  |
| Fungal Types Identified  | Raw<br>Count  | Spores /   | % of<br>Total   | Raw<br>Count  | Spores /   | % of<br>Total                                       | Raw<br>Count   | Spores /   | % of<br>Total  | Raw<br>Count  | Spores /            | % of<br>Total |  |
| **Non-Problem Fungi  |   |  |   |   |  |   |  |  |  |   |                     |               |  |
| Alternaria   | 3   | 20   | <1  |   |  |   | 1  | 7  | 2  |   |                     |               |  |
| Ascospores   | 189   | 1,266  | 19  | 1   | 7  | 6   |  |  |  |   |                     |               |  |
| Basidiospores  | 732   | 4,904  | 74  | 8   | 54   | 50  | 6  | 40   | 11   | 6   | 40                  | 10            |  |
| Cladosporium   | 49  | 328  | 4   | 2   | 13   | 12  |  |  |  | 2   | 13                  | 3             |  |
| Curvularia   |   |  |   |   |  |   |  |  |  | 1   | 7                   | 1             |  |
| Ganoderma  | 4   | 27   | <1  |   |  |   |  |  |  |   |                     |               |  |
| Penicillium/Aspergillus  |   |  |   | 4   | 27   | 25  | 42   | 281  | 80   | 47  | 315                 | 82            |  |
| Pestalotia(opsis)  | 1   | 7  | <1  |   |  |   |  |  |  |   |                     |               |  |
| Pithomyces   | 1   | 7  | <1  |   |  |   | 1  | 7  | 2  |   |                     |               |  |
| Rusts  |   |  |   | 1   | 7  | 6   | 1  | 7  | 2  |   |                     |               |  |
| Smut/Myxomycetes   | 6   | 40   | <1  |   |  |   |  |  |  |   |                     |               |  |
| Unclassified Pigmented Spores  | 4   | 27   | <1  |   |  |   | 1  | 7  | 2  | 1   | 7                   | 1             |  |
| Total Spore Count#   | 990   | 6,600  | 100   | 16  | 110  | 100   | 52   | 350  | 100  | 57  | 380                 | 100           |  |
| Minimum Detection Limit  | 7   |  |   | 7   |  |   | 7  |  |  | 7   |                     |               |  |
| 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". | normally t<br>building to<br>from which<br>interior of<br>compared,<br>considered<br>mold coun<br>DEBRIS: T<br>the sample | L samples a aken outsid oprovide a le h samples of the buildin Outside ain I normal whats may be. I he debris pelikely had auracy of the | e a baseline n the g are r is hatever the LIGHT resent in no effect | NORMAL<br>no indicati<br>mold cour<br>exposure coccupants<br>present in | nts are withing RANGE and ion, based on the thermoner to the concern to the concern to the sample on the accurate. | nd there is in the re is any he I DEBRIS likely had | NORMAL<br>no indicati<br>mold coun<br>exposure c<br>occupants.<br>present in | nts are within RANGE are within RANGE are ion, based outs, that their oncern to the The LIGHT The LIGHT in the sample on the accurate. | nd there is<br>on the<br>re is any<br>he<br>T DEBRIS<br>likely had | 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. |                     |               |  |

<sup>\*\*</sup> 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.

**<sup>\*</sup>Total Spore Counts** are reported to 2 significant figures.



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

| Detailed Word  |  |           |              | Δ.  | 1 .           |              |   | 1 .           |              |   | ·             |     |
|--|--|-----------|--------------|---|---------------|--------------|---|---------------|--------------|---|---------------|-----|
| Analysis Method  | Air Analysis   |           |              | Air Analysis  |               |              | Air Analysis  |               |              | Air Analysis  |               |     |
| Lab Sample #   | 52494542-5   |           |              | 52494542-6  |               |              | 52494542-7  |               |              | 52494542-8  |               |     |
| Sample Identification  | 33411246   |           |              | 33411252  |               |              | 33411231  |               |              | 33411225  |               |     |
| Sample Location  | CLASSROOM #2   |           |              | DIRECTORS OFFICE  |               |              | CLASSROOM #1  |               |              | MAIN OFFICE / FA<br>OFFICE  |               |     |
| Sample Type / Metric   | Air-O-Cell/150L  |           |              | Air-O-Cell/150L   |               |              | Air-O-Cell/150L   |               |              | Air-O-Cell/150L   |               |     |
| Analysis Date  | Tue Sej  | otember 2 | 1, 2021      | Tue September 21, 2021  |               |              | Tue September 21, 2021  |               |              | Tue September 21, 2021  |               |     |
| Determination  | NORMAL   |           | NORMAL       |   |               | NORMAL       |   |               | NORMAL       |   |               |     |
| Fungal Types Identified  | Raw Spores / % of Count m <sup>3</sup> Total   |           | Raw<br>Count | Spores /  | % of<br>Total | Raw<br>Count | Spores /  | % of<br>Total | Raw<br>Count | Spores /  | % of<br>Total |     |
| **Non-Problem Fungi  |  |           |              |   |               |              |   |               |              |   |               |     |
| Ascospores   | 1  | 7         | 4            |   |               |              |   |               |              |   |               |     |
| Basidiospores  | 9  | 60        | 42           | 6   | 40            | 35           | 11  | 74            | 50           | 14  | 94            | 63  |
| Cladosporium   | 2  | 13        | 9            | 2   | 13            | 11           | 5   | 34            | 22           |   |               |     |
| Curvularia   |  |           |              |   |               |              |   |               |              | 1   | 7             | 4   |
| Ganoderma  | 1  | 7         | 4            |   |               |              |   |               |              | 1   | 7             | 4   |
| Penicillium/Aspergillus  | 1  | 7         | 4            | 1   | 7             | 6            |   |               |              | 2   | 13            | 8   |
| Pithomyces   |  |           |              | 1   | 7             | 6            |   |               |              | 2   | 13            | 8   |
| Rusts  |  |           |              | 2   | 13            | 11           | 1   | 7             | 4            | 1   | 7             | 4   |
| Smut/Myxomycetes   | 1  | 7         | 4            | 1   | 7             | 6            | 2   | 13            | 8            |   |               |     |
| Unclassified Colorless Spores  | 1  | 7         | 4            |   |               |              | 1   | 7             | 4            |   |               |     |
| <b>Unclassified Pigmented Spores</b>   | 5  | 34        | 23           | 4   | 27            | 23           | 2   | 13            | 8            | 1   | 7             | 4   |
| Total Spore Count#   | 21   | 140       | 100          | 17  | 110           | 100          | 22  | 150           | 100          | 22  | 150           | 100 |
| Minimum Detection Limit  | 7  |           |              | 7   |               |              | 7   |               |              | 7   |               |     |
| 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". | Mold counts are within a<br>NORMAL RANGE and there is<br>no indication, based on the<br>mold counts, that there is any |           |              | 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 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 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. |               |     |

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#### 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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| _   | r   |   |  |  |  |   |  |   |  |   |               |     |  |
|---|---|---|--|--|--|---|--|---|--|---|---------------|-----|--|
| Analysis Method   | Air Analysis  |   |  | Air Analysis   |  |   | Air Analysis   |   |  | Air Analysis  |               |     |  |
| Lab Sample #  | 52494542-9  |   |  | 52494542-10  |  |   | 52494542-11  |   |  | 52494542-12   |               |     |  |
| Sample Identification   | 33411242  |   |  | 33411232   |  |   | 33411237   |   |  | 33411235  |               |     |  |
| Sample Location   | STA   | FF LOUN   | IGE  | CLA  | CLASSROOM #8   |   |  | CLASSROOM #7  |  |   | CLASSROOM #6  |     |  |
| Sample Type / Metric  | Air   | -O-Cell/15  | 50L  | Air-O-Cell/150L  |  |   | Air-O-Cell/150L  |   |  | Air-O-Cell/150L   |               |     |  |
| Analysis Date   | Tue September 21, 2021  |   |  | Tue September 21, 2021   |  |   | Tue September 21, 2021   |   |  | Tue September 21, 2021  |               |     |  |
| Determination   | NORMAL  |   | NORMAL   |  |  | NORMAL  |  |   | NORMAL   |   |               |     |  |
| Fungal Types Identified   | Raw Spores / % of Count m <sup>3</sup> Total                            |   | Raw<br>Count   | Spores /   | % of<br>Total  | Raw<br>Count                                      | Spores /   | % of<br>Total   | Raw<br>Count   | Spores /  | % of<br>Total |     |  |
| **Non-Problem Fungi   |   |   |  |  |  |   |  |   |  |   |               |     |  |
| Ascospores  | 2   | 13  | 5  |  |  |   |  |   |  |   |               |     |  |
| Basidiospores   | 20  | 134   | 59   | 8  | 54   | 72  | 4  | 27  | 50   | 6   | 40            | 74  |  |
| Cladosporium  | 2   | 13  | 5  | 1  | 7  | 9   |  |   |  |   |               |     |  |
| Curvularia  |   |   |  |  |  |   | 1  | 7   | 12   |   |               |     |  |
| Penicillium/Aspergillus   |   |   |  | 1  | 7  | 9   |  |   |  | 1   | 7             | 12  |  |
| Pithomyces  | 1   | 7   | 3  |  |  |   | 2  | 13  | 24   |   |               |     |  |
| Rusts   | 3   | 20  | 8  |  |  |   | 1  | 7   | 12   |   |               |     |  |
| Smut/Myxomycetes  | 2   | 13  | 5  | 1  | 7  | 9   |  |   |  |   |               |     |  |
| Unclassified Colorless Spores   | 1   | 7   | 3  |  |  |   |  |   |  |   |               |     |  |
| Unclassified Pigmented Spores   | 3   | 20  | 8  |  |  |   |  |   |  | 1   | 7             | 12  |  |
| Total Spore Count#  | 34  | 230   | 100  | 11   | 75   | 100   | 8  | 54  | 100  | 8   | 54            | 100 |  |
| Minimum Detection Limit   |   | 7   |  |  | 7  |   |  | 7   |  |   | 7             |     |  |
| 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<br>no indicate<br>mold cour<br>exposure coccupants<br>present in | nts are withing RANGE are withing RANGE are ion, based on the ion cern to the ion cern to the ion cern to the sample on the accurate. | nd there is<br>on the<br>re is any<br>he<br>T DEBRIS<br>likely had | NORMAL<br>no indicat<br>mold cour<br>exposure coccupants<br>present in | nts are withing RANGE and an another than the state of the sample of the | nd there is n the e is any ne Γ DEBRIS likely had | NORMAL<br>no indicati<br>mold coun<br>exposure c<br>occupants.<br>present in | ats are within RANGE are on, based on tts, that their oncern to the The LIGHT the sample on the accurate. | nd there is<br>on the<br>re is any<br>he<br>T DEBRIS<br>likely had | 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. |               |     |  |

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#### 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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| Analysis Method  | l A   | Air Analys   | is            | Air Analysis |   |  | Intentionally Blank | Intentionally Blank |
|--|---|--|---------------|--------------|---|--|---------------------|---------------------|
| Lab Sample #   |   | 2494542-1  |               |              | 52494542-1  |  | ,                   | ,                   |
| Sample Identification  | 33411228  |  |               |              | 13851723  | ı  |                     |                     |
| Sample Location  | CLASSROOM #5  |  |               |              | KITCHEN   | J  |                     |                     |
| Sample Type / Metric   | Air-O-Cell/150L   |  |               | Br           | eeze ST/1   | 50L  |                     |                     |
| Analysis Date  | Tue Se  | ptember 2  | 1, 2021       | Tue Se       | eptember 2  | 1, 2021  |                     |                     |
| Determination  | N   | NORMA  | L             | 1            | NORMA   | L  |                     |                     |
| Fungal Types Identified  | Raw<br>Count  | Spores /   | % of<br>Total | Raw<br>Count | Spores /  | % of<br>Total  |                     |                     |
| **Non-Problem Fungi  |   | -  |               |              | -   |  | •                   | -                   |
| Basidiospores  | 2   | 13   | 65            | 3            | 20  | 74   |                     |                     |
| Penicillium/Aspergillus  |   |  |               | 1            | 7   | 25   |                     |                     |
| Unclassified Pigmented Spores  | 1   | 7  | 35            |              |   |  |                     |                     |
| Total Spore Count#   | 3   | 20   | 100           | 4            | 27  | 100  |                     |                     |
| Minimum Detection Limit  |   | 7  |               |              | 7   |  |                     |                     |
| Comments/Definitions Raw Count: Actual number of spores observed and counted. Spores/m³: Spores per cubic meter. % of Total: Percentage of a particula 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 indicat<br>mold cour<br>exposure o<br>occupants<br>present in<br>no effect o | Told counts are within a ORMAL RANGE and there is to indication, based on the sold counts, that there is any exposure concern to the ccupants. The LIGHT DEBRIS resent in the sample likely had to effect on the accuracy of the sold count. |               |              | nts are with. RANGE at ion, based conts, that there concern to to the LIGH the sample on the accurat. | nd there is<br>on the<br>re is any<br>he<br>T DEBRIS<br>likely had | INTENTIONALLY BLANK | INTENTIONALLY BLANK |

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### **Mold Glossary**

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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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**Basidiospores** 

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

the late summer and fall.

Indoor Habitat: Mushrooms can grow on 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:** 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.



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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

Ganoderma

Outdoor Habitat: Growing as a parasite on other plants and fungi, especially on trees, notably

hardwoods

Indoor Habitat: Does not grow indoors

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

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

**Comments:** Extensively used as a Chinese herbal supplement



### **Mold Glossary**

PREPARED FOR: ACE MOLD INSPECTION, LLC

TEST ADDRESS: 2239 RTE 1-S NORTH BRUNSWICK, NJ 08902

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.

Pestalotia(opsis)

Outdoor Habitat: Dead and decaying vegetation and soil

**Indoor Habitat:** Not known to grow indoors

Allergy Potential: None known Disease Potential: Not known Toxin Potential: Not known

**Comments:** Occasionally seen in air samples



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**Pithomyces** 

**Outdoor Habitat:** Soil and decaying vegetation and their spores are easily dispersed into the air by

**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.

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.

An 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).



### **Mold Glossary**

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**Unclassified Colorless 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:** None known

**Comments:** Unknown spores colorless spores that not have enough distinctive characteristics

to be identified as any particular type of spore.

This type of spore may also be new to science and therefore, unclassified.

**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:** Unknown spores that have at least some color, but do not have enough

distinctive characteristics to be identified as any particular type of spore.

This type of spore may also be new to science and therefore, unclassified.