# EXPANDED FUNGAL REPORT ™

**Prepared Exclusively For**

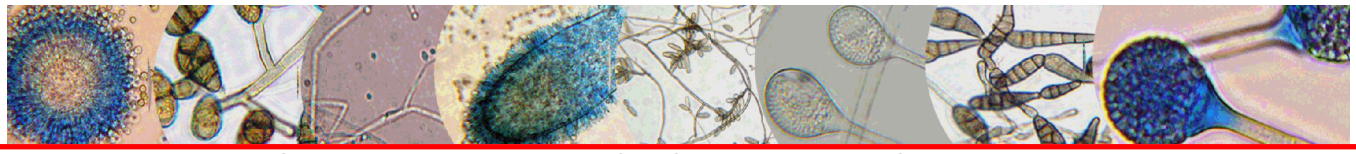
Amerispec Home Inspection Service

PO Box 350
Loganville, GA 30052
Phone:770-935-4990

**Report Date:** **9/15/2025**
**Project:** **123 Anywhere St**
**EMSL Order:** **072509046**

**AIHA LAP, LLC.**

AIHA LAP, LLCEMLAP #100662



**EMSL Analytical, Inc.**
2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080
Phone: (770) 956-9150 Fax: (770) 956-9181 Web: http://www.EMSL.com Email:atlantalab@emsl.com

**Attn:** Lindsey Hodges
Amerispec Home Inspection Service
PO Box 350
Loganville, GA 30052

EMSL Order: 072509046
Customer ID: 00000
Collected: 9/11/2025
Received: 9/12/2025
Analyzed: 9/15/2025

**Proj:** 123 Hollie St

## 1. Description of Analysis

**Analytical Laboratory**

EMSL Analytical, Inc. (EMSL) is a nationwide, full service, analytical testing laboratory network providing Asbestos, Mold, Indoor Air Quality, Microbiological, Environmental, Chemical, Forensic, Materials, Industrial Hygiene and Mechanical Testing services since 1981. Ranked as the premier independently owned environmental testing laboratory in the nation, EMSL puts analytical quality as its top priority. This quality is recognized by many well-respected federal, state and private accrediting agencies, and assured by our high quality personnel, including many Ph.D. microbiologists and mycologists.

EMSL is an independent laboratory that performed the analysis of these samples. EMSL did not conduct the sampling or site investigation for this report. The samples referenced herein were analyzed under strict quality control procedures using state-of-the-art microbiological methods. The analytical methods used and the data presented are scientifically and legally defensible.

The laboratory data is provided in compliance with ISO-IEC 17025 guidelines for the particular test(s) requested, including any associated limitations for the methods employed. These data are intended for use by professionals having knowledge of the testing methods necessary to interpret them accurately.

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**Air Samples - Spore traps:**

Spore traps are commercially available sampling devices that capture airborne particles on an adhesive slide. Air is pulled through the device using a vacuum pump. Spores, as well as other airborne particles, are impacted on the collection adhesive. Using spore trap collection methods has inherent limitations. These collection methods are biased towards larger spore sizes.

The analysis for total spore counts is a direct microscopic examination and does not include culturing or growing the fungi. Therefore, the results include both viable and non-viable spores. Some fungal groups produce similar spore types that cannot be distinguished by direct microscopic examination alone (i.e., *Aspergillus/Penicillium*, and others). Other spore types may lack distinguishing features that aid in their identification. These types are grouped into larger categories such as Ascospores or Basidiospores.

Fungal spores are identified and grouped by morphological characteristics including color, shape, septation, ornamentation, and fruiting structures (if present) which are compared to published mycological identification keys and texts. EMSL reports provide spore counts per cubic meter of air to three significant figures. Please note that each spore category is reported to three significant figures. Due to rounding and the application of three significant figures the sum of the individual spore numbers may not equal the total spore count on the report. EMSL does not maintain responsibility for final volume concentrations (counts/m3) since this volume is provided by the field collector and can not be verified by EMSL.

EMSL analyzes spore traps using phase contrast microscopy. There is a wide choice of collection devices (Air-O-Cell, Micro-5, Burkhard, etc.) on the market. Differences in analytical method may exist between spore trap devices.

Spore trap results are reported in spores per cubic meter of air. Due to the other airborne particles collected with the spores, EMSL reports a background particle density. Background density is an indication of overall particulate matter present on the sample (i.e. dust in the air). High background concentrations may obscure spores such as the *Penicillium*/*Aspergillus* group. The rating system is from 1-5 with 1 = 1 - 25% of the background obscured by material, 2 = 26 - 50%, 3 = 51 - 75%, 4 = 76% - 99%, 5 = 100% or overloaded. A background rating of 4 or higher should be regarded as a minimum count since the actual concentrations may be higher than those reported. EMSL will not be held responsible for overloading of samples. Sample volumes are left to the discretion of the company or persons conducting the fieldwork.

Skin fragment density is the percentage of skin cells making up the total background material, 1 = 1 - 25%, 2 = 26 - 50%, 3 = 51 - 75%, 4 = 76-100%. Skin fragment density is considered an indication of the general cleanliness in the area sampled. It has been estimated that up to 90% of household dust consists of dead skin cells.

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## 2. Analytical Results

See attached data reports and charts.

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**Spore Trap ASSESSMENTReport™ Air-O-Cell(™) Analysis of Fungal Spores & Particulates (Methods MICRO-SOP-201, ASTM D7391)**

| | Particle Identification | Raw Count | (Count/m³) | % of Total | Interpretation Guideline |
|---|---|---|---|---|---|
| 072509046-0001 | Alternaria (Ulocladium) | 1* | 7* | 1.8 | Slightly Elevated |
| | Ascospores | 3 | 70 | 17.8 | Acceptable |
| **Client Sample ID** | Aspergillus/Penicillium++ | 6 | 100 | 25.4 | Slightly Elevated |
| 1 | Basidiospores | 3 | 70 | 17.8 | Acceptable |
| | Bipolaris++ | 1 | 20 | 5.1 | Slightly Elevated |
| | Chaetomium++ | - | - | - | |
| **Location** | Cladosporium | 2 | 40 | 10.2 | Acceptable |
| Kitchen | Curvularia | 3 | 70 | 17.8 | ELEVATED |
| | Epicoccum | - | - | - | |
| **Sample Volume (L)** | Fusarium++ | - | - | - | |
| | Ganoderma | - | - | - | |
| 150 | Myxomycetes++ | - | - | - | |
| | Pithomyces++ | 1* | 7* | 1.8 | Acceptable |
| **Sample Type** | Rust | - | - | - | |
| | Stachybotrys/Memnoniella | - | - | - | |
| Inside | Arthrospores | - | - | - | |
| **Comments** | Nigrospora | - | - | - | |
| | Pestalotia++ | - | - | - | |
| | Sordaria | - | - | - | |
| | Tetraploa | - | - | - | |
| | Torula++ | 2* | 10* | 2.5 | Slightly Elevated |
| | **Total Fungi** | **22** | **394** | **100** | Acceptable |
| | Hyphal Fragment | 5* | 30* | - | Acceptable |
| | Insect Fragment | 1 | 20 | - | Slightly Elevated |
| | Pollen | - | - | - | |

Analytical Sensitivity 600x: **22** counts/cubic meter
Analytical Sensitivity 300x *: **7*** counts/cubic meter

Skin Fragments: **1** 1 to 4 (low to high)
Fibrous Particulate: **1** 1 to 4 (low to high)
Background: **2** 1 to 4 (low to high); 5 (overloaded)

**Acceptable** Concentration at or below background
**Slightly Elevated** Concentration above background
**ELEVATED** Concentration 10X or more above background

Not commonly found growing indoors, spores likely come from outside.
Spores reported to be able to cause allergies in individuals.
Potential for mycotoxin production exists with these fungi.
These fungi are considered water damage indicators.

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Initial report from: 09/15/2025 15:26:43

Daoxin Li, PH.D, Lab Manager
or Other Approved Signatory

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| | Particle Identification | Raw Count | (Count/m³) | % of Total | Interpretation Guideline |
|---|---|---|---|---|---|
| 072509046-0002 | Alternaria (Ulocladium) | - | - | - | |
| | Ascospores | 10 | 220 | 23.8 | Acceptable |
| **Client Sample ID** | Aspergillus/Penicillium++ | 2 | 40 | 4.3 | Slightly Elevated |
| 2 | Basidiospores | 13 | 290 | 31.4 | Acceptable |
| | Bipolaris++ | 1* | 7* | 0.8 | Acceptable |
| | Chaetomium++ | - | - | - | |
| **Location** | Cladosporium | 15 | 330 | 35.7 | Acceptable |
| Living Room | Curvularia | 1* | 7* | 0.8 | Acceptable |
| | Epicoccum | - | - | - | |
| **Sample Volume (L)** | Fusarium++ | - | - | - | |
| | Ganoderma | 1 | 20 | 2.2 | Slightly Elevated |
| 150 | Myxomycetes++ | - | - | - | |
| | Pithomyces++ | - | - | - | |
| **Sample Type** | Rust | - | - | - | |
| | Stachybotrys/Memnoniella | - | - | - | |
| Inside | Arthrospores | - | - | - | |
| **Comments** | Nigrospora | - | - | - | |
| | Pestalotia++ | 2* | 10* | 1.1 | Slightly Elevated |
| | Sordaria | - | - | - | |
| | Tetraploa | - | - | - | |
| | Torula++ | - | - | - | |
| | **Total Fungi** | **45** | **924** | **100** | Acceptable |
| | Hyphal Fragment | 2 | 40 | - | Acceptable |
| | Insect Fragment | - | - | - | |
| | Pollen | - | - | - | |

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++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.
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| | Particle Identification | Raw Count | (Count/m³) | % of Total | Interpretation Guideline |
|---|---|---|---|---|---|
| 072509046-0003 | Alternaria (Ulocladium) | - | - | - | |
| | Ascospores | 4 | 90 | 26.4 | Acceptable |
| **Client Sample ID** | Aspergillus/Penicillium++ | 3 | 70 | 20.5 | Slightly Elevated |
| 3 | Basidiospores | 5 | 100 | 29.3 | Acceptable |
| | Bipolaris++ | 1* | 7* | 2.1 | Acceptable |
| | Chaetomium++ | - | - | - | |
| **Location** | Cladosporium | 2 | 40 | 11.7 | Acceptable |
| Bedroom | Curvularia | 1 | 20 | 5.9 | Slightly Elevated |
| | Epicoccum | - | - | - | |
| **Sample Volume (L)** | Fusarium++ | - | - | - | |
| | Ganoderma | - | - | - | |
| 150 | Myxomycetes++ | - | - | - | |
| | Pithomyces++ | 1* | 7* | 2.1 | Acceptable |
| **Sample Type** | Rust | - | - | - | |
| | Stachybotrys/Memnoniella | 1* | 7* | 2.1 | Slightly Elevated |
| Inside | Arthrospores | - | - | - | |
| **Comments** | Nigrospora | - | - | - | |
| | Pestalotia++ | - | - | - | |
| | Sordaria | - | - | - | |
| | Tetraploa | - | - | - | |
| | Torula++ | - | - | - | |
| | **Total Fungi** | **18** | **341** | **100** | Acceptable |
| | Hyphal Fragment | - | - | - | |
| | Insect Fragment | - | - | - | |
| | Pollen | - | - | - | |

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|---|---|---|---|---|---|
| 072509046-0004 | Alternaria (Ulocladium) | - | - | - | |
| | Ascospores | 31 | 690 | 6.1 | |
| **Client Sample ID** | Aspergillus/Penicillium++ | 1 | 20 | 0.2 | |
| 4 | Basidiospores | 425 | 9390 | 83.5 | |
| | Bipolaris++ | 2* | 10* | 0.1 | |
| | Chaetomium++ | - | - | - | |
| **Location** | Cladosporium | 39 | 860 | 7.6 | |
| Exterior Front | Curvularia | 1* | 7* | 0.1 | |
| | Epicoccum | - | - | - | |
| **Sample Volume (L)** | Fusarium++ | 1 | 20 | 0.2 | |
| | Ganoderma | 1* | 7* | 0.1 | |
| 150 | Myxomycetes++ | - | - | - | |
| | Pithomyces++ | 1* | 7* | 0.1 | |
| **Sample Type** | Rust | - | - | - | |
| | Stachybotrys/Memnoniella | - | - | - | |
| Background | Arthrospores | 8 | 200 | 1.8 | |
| **Comments** | Nigrospora | 1* | 7* | 0.1 | |
| | Pestalotia++ | - | - | - | |
| | Sordaria | 1* | 7* | 0.1 | |
| | Tetraploa | 1 | 20 | 0.2 | |
| | Torula++ | - | - | - | |
| | **Total Fungi** | **513** | **11245** | **100** | |
| | Hyphal Fragment | 2 | 40 | - | |
| | Insect Fragment | - | - | - | |
| | Pollen | 3 | 70 | - | |

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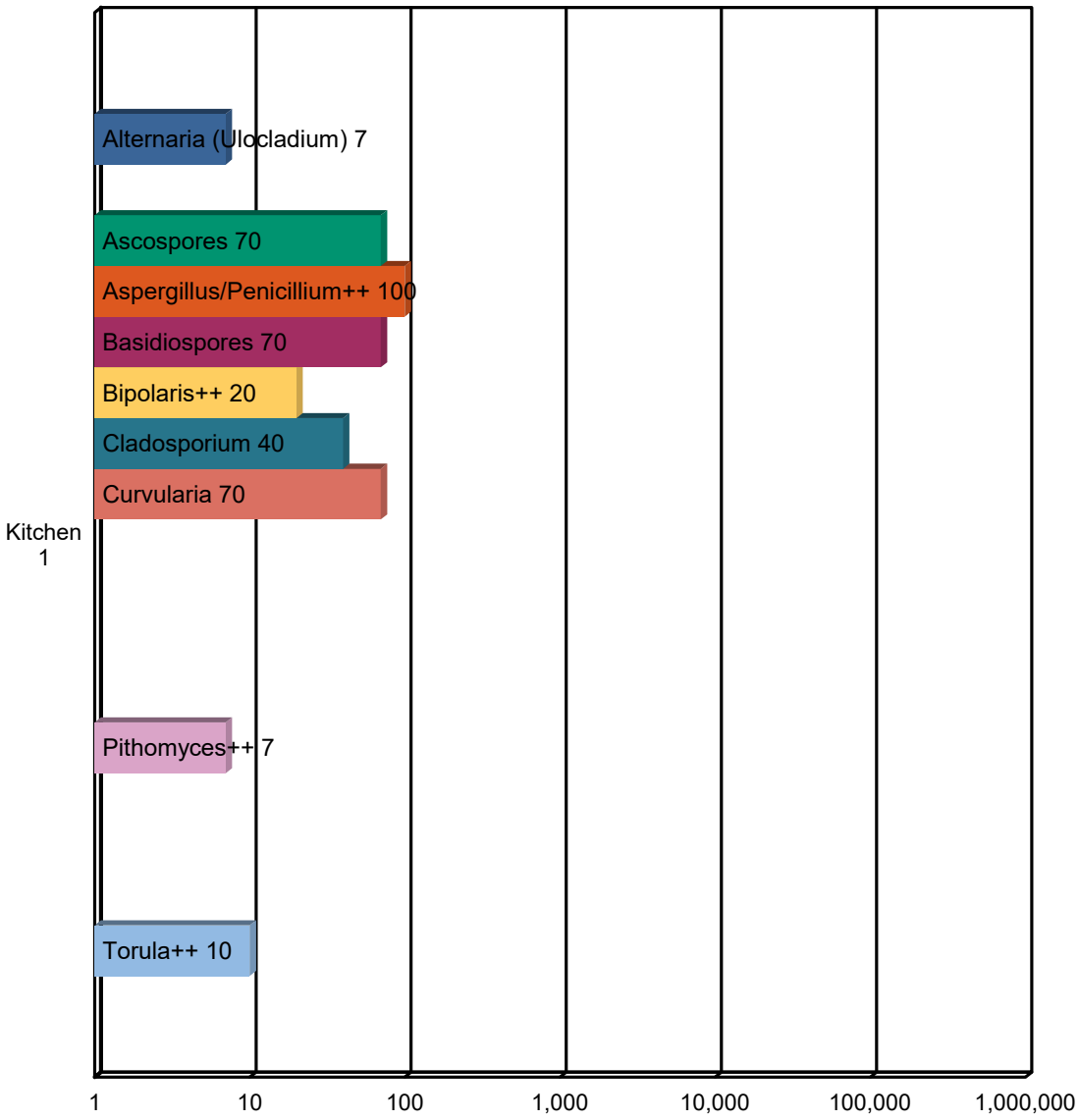
## Spore Trap Report: Total Counts




* The chart is displayed using a logarithmic scale. Bar size is not directly proportional to the number of spores.

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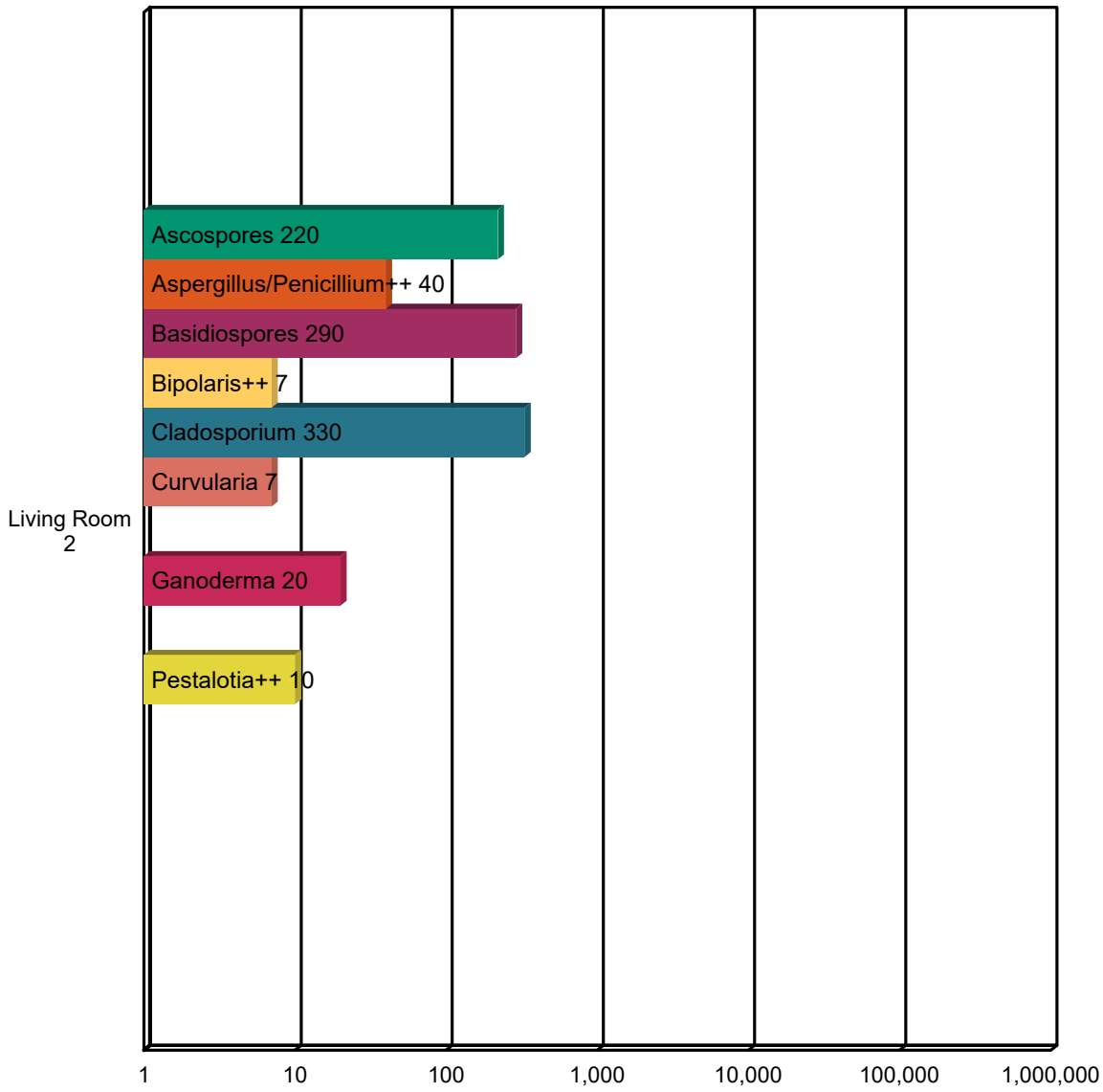


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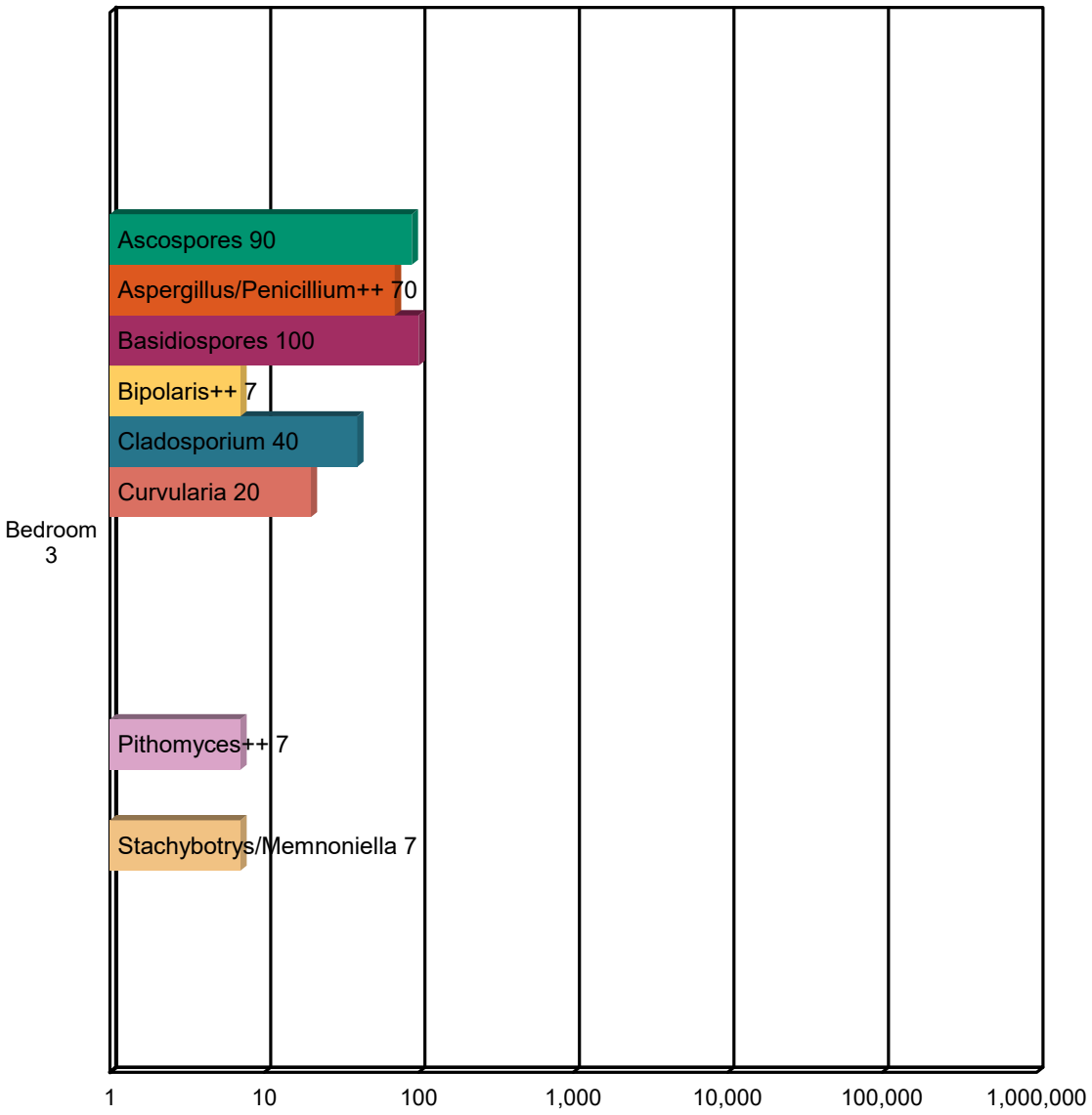


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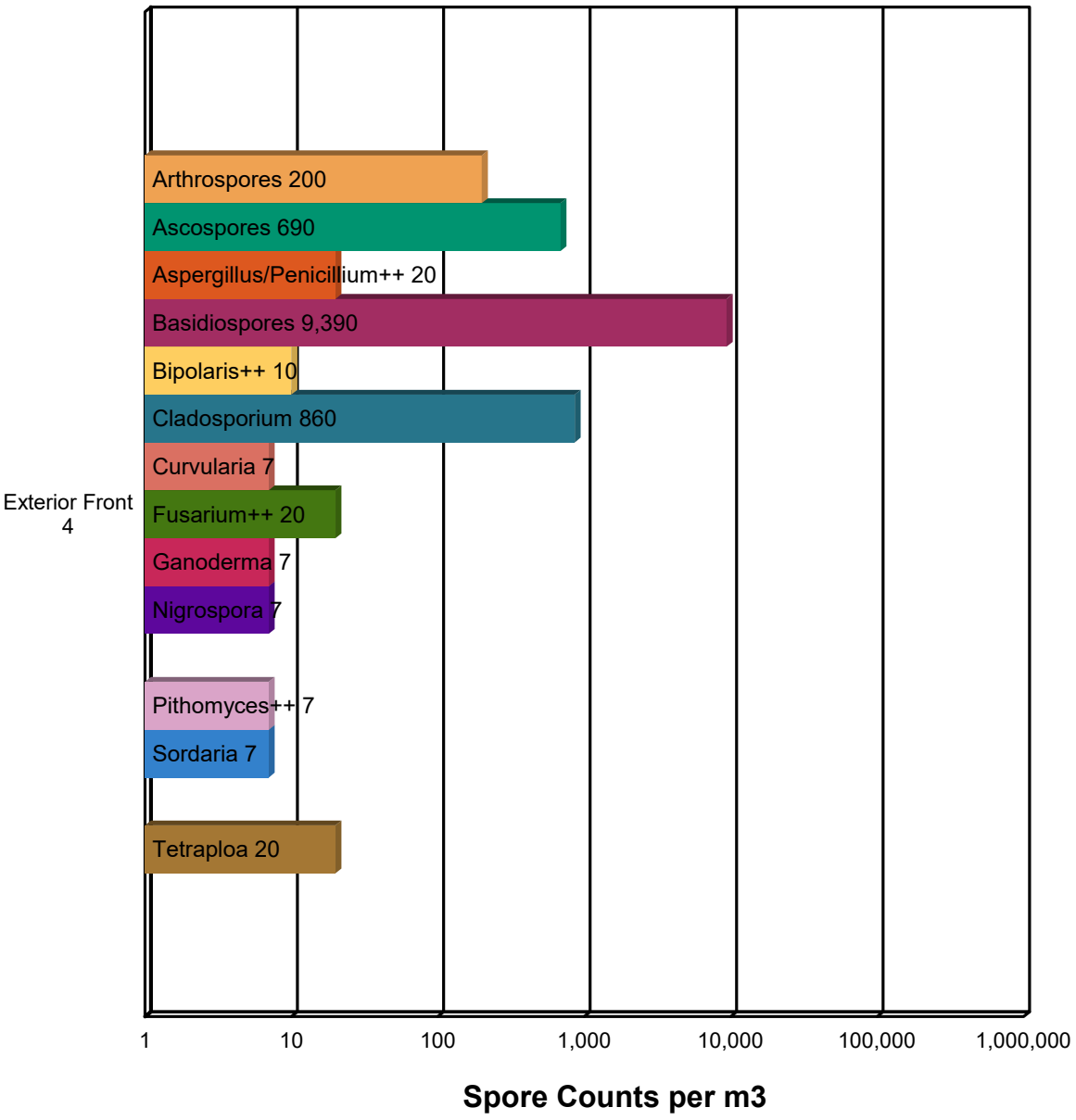


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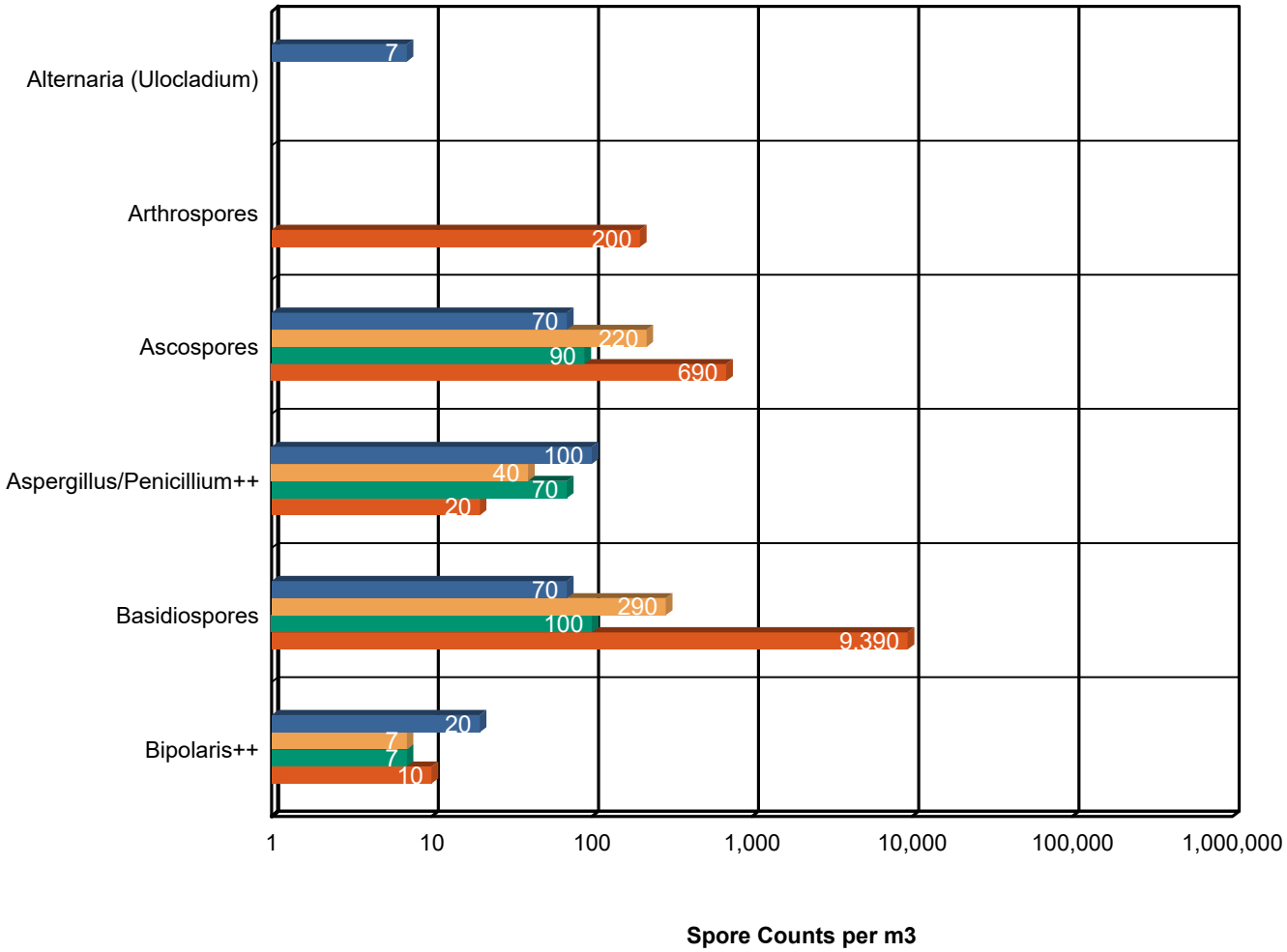
## Background Comparison Chart

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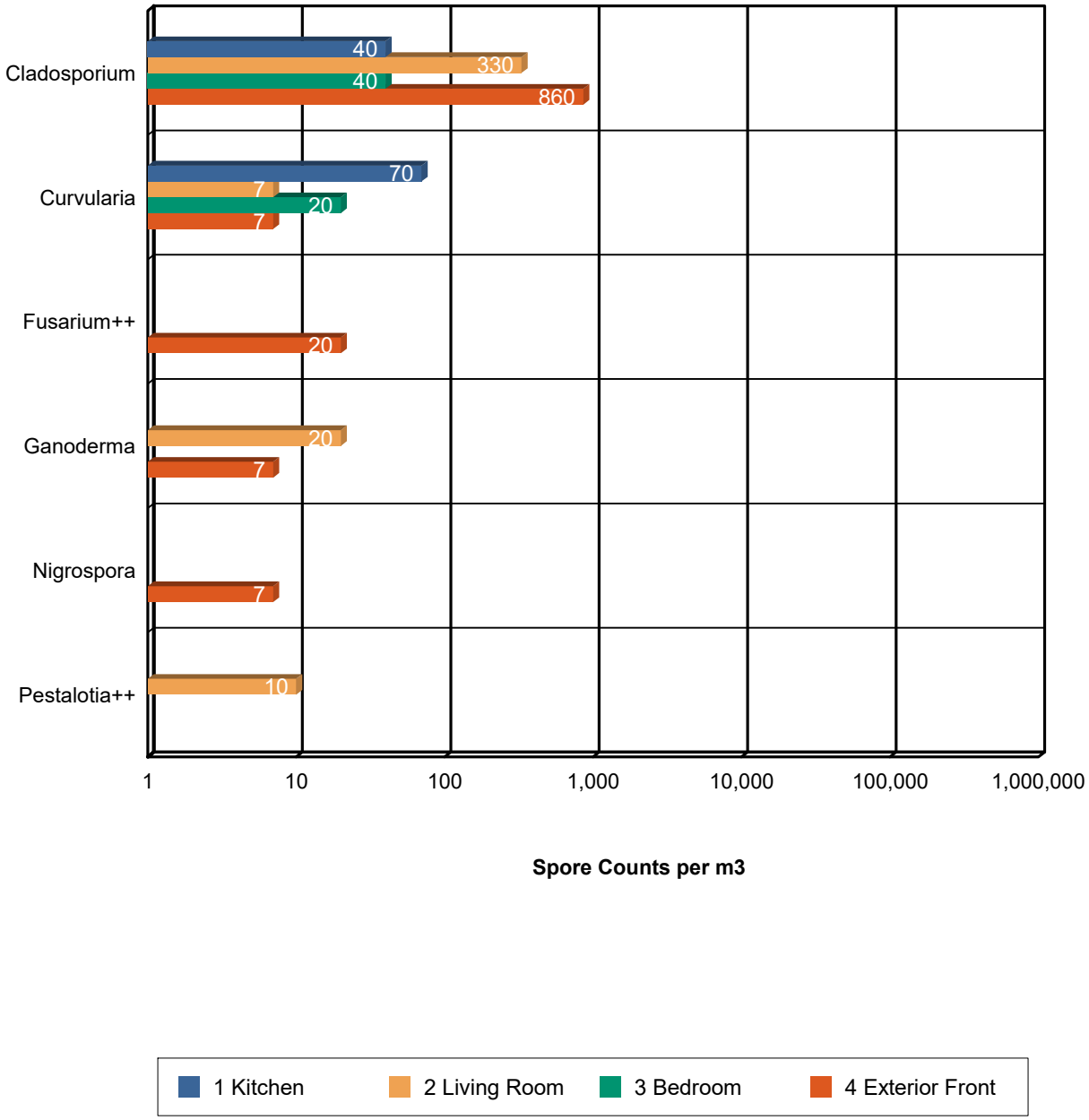


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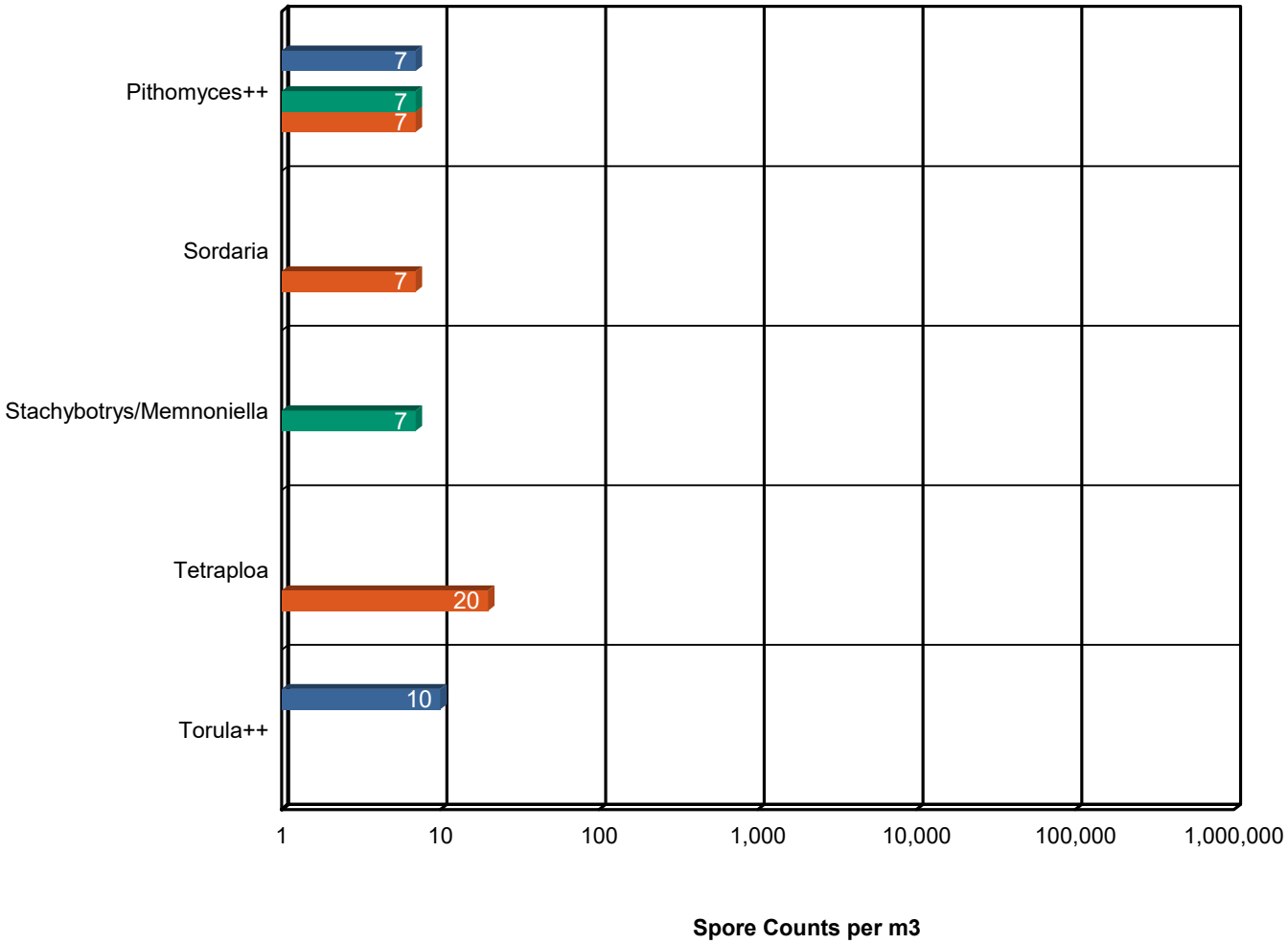


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## 3. Understanding the Results

EMSL Analytical, Inc. is an independent laboratory, providing unbiased and scientifically valid results. These data represent only a portion of an overall IAQ investigation. Visual information and environmental conditions measured during the site assessment (humidity, moisture readings, etc.) are crucial to any final interpretation of the results. Many factors impact the final results; therefore, result interpretation should only be conducted by qualified individuals. The American Conference of Governmental Industrial Hygienists (ACGIH) has published a good reference book covering sampling and data interpretation. It is entitled, Bioaerosols: Assessment and Control, 1999.

Fungal spores are found everywhere. Whether or not symptoms develop in people exposed to fungi depends on the nature of the fungal material (e.g., allergenic, toxic, or infectious), the exposure level, and the susceptibility of exposed persons. Susceptibility varies with the genetic predisposition (e.g., allergic reactions do not always occur in all individuals), age, pre-existing medical conditions (e.g., diabetes, cancer, or chronic lung conditions), use of immunosuppressive drugs, and concurrent exposures. These reasons make it difficult to identify dose/response relationships that are required to establish “safe” or “unsafe” levels (i.e., permissible exposure limits).

It is generally accepted in the industry that indoor fungal growth is undesirable and inappropriate, necessitating removal or other appropriate remedial actions. The New York City guidelines and EPA guidelines for mold remediation in schools and commercial buildings define the conditions warranting mold remediation. Always remember that water is the key. Preventing water damage or water condensation will prevent mold growth.

This report is not intended to provide medical advice or advice concerning the relative safety of an occupied space. Always consult an occupational or environmental health physician who has experience addressing indoor air contaminants if you have any questions.

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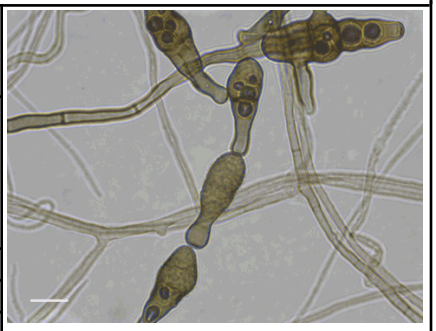
## 4. Glossary of Fungi

### ALTERNARIA(ULOCLADIUM)

| | |
|---|---|
| **Natural Habitat** | Common saprobe and pathogen of plants. Typically found on plant tissue, decaying wood, and foods. Soil . Air outdoors. |
| **Suitable Substrates in the Indoor Environment** | Indoors near condensation (window frames, showers), House dust (in carpets, and air). Also colonizes building supplies, computer disks, cosmetics, leather, optical instruments, paper, sewage, stone monuments, textiles, wood pulp, and jet fuel |
| **Water Activity** | Aw =0.85-0.88 (water damage indicator) |
| **Mode of Dissemination** | Wind |
| **Allergic Potential** | Type I allergies (hay fever, asthma), Type III (hypersensitivity pneumonitis) |
| **Potential or Opportunistic Pathogens** | Phaeohyphomycosis {causing cystic granulomas in the skin and subcutaneous tissue}. In immunocompetent patients, Alternaria colonizes the paranasal sinuses, leading to chronic hypertrophic sinusitis |
| **Industrial Uses** | Biocontrol of weed plants ·Biocontrol fungal plant pathogens. |
| **Potential Toxins Produced** | Alternariol (AOH) . Alternariol monomethylether (AME). Tenuazonic acid (TeA). Altenuene (ALT). Altertoxins (ATX) |
| **Other Comments** | Many species of Ulocladium have been renamed as Alternaria. Alternaria spores are one of the most common and potent indoor and outdoor airborne allergens. Additionally, Alternaria sensitization has been determined to be one of the most important factors in the onset of childhood asthma. Synergy with Cladosporium or Ulocladium may increase the severity of symptoms |
| **References** | Alternaria redefined. J. Woudenberg et al., Studies in Mycology. Volume 75, June 2013, Pages 171-212 |



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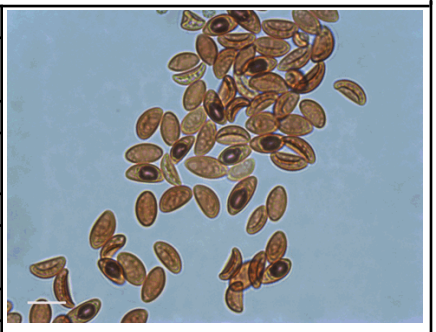
## ARTHROSPORES

| | |
|---|---|
| **Natural Habitat** | Many Basidiomycetes form arthrospores during their mycelial stage. Geotrichum and Oidiodendron are typical ascomycete arthrospore formers. Arthrospores are formed by microfungi, and yeast-like fungi. Arthrospores are disarticulated cells of a formerly vegetative filament that function as spores. |
| **Suitable Substrates in the Indoor Environment** | Paper, Soil, Textiles |
| **Allergic Potential** | Unknown, depends on genera and species. |
| **Potential Opportunist or Pathogen** | Unknown, depends on genera and species |
| **Potential Toxins Produced** | Unknown, depends on genera and species |
| **Free moisture required for mold growth** | Depends on genera and species |
| **Mode of Dissemination** | depends on genera and species |
| **Industrial Uses** | None known. |

## ASCOSPORES

| | |
|---|---|
| **Natural Habitat** | Everywhere in nature. |
| **Suitable Substrates in the Indoor Environment** | Depends on genus and species. |
| **Water Activity** | Depends on genus and species. |
| **Mode of Dissemination** | Forcible ejection or passive release and dissemination by wind or insects. |
| **Allergic Potential** | Depends on genus and species. |
| **Potential or Opportunistic Pathogens** | Depends on genus and species. |
| **Industrial Uses** | Depends on genus and species. |
| **Potential Toxins Produced** | Depends on genus and species. |
| **Other Comments** | Ascospores are the result of sexual reproduction and produced in a saclike structure called an ascus. All ascospores belong to members of the Phylum Ascomycota, which encompasses a plethora of genera worldwide. |



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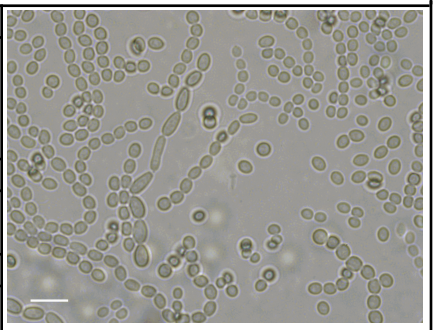
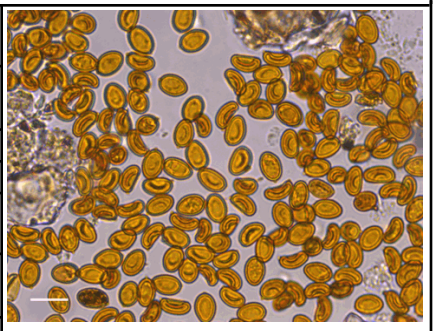
## ASPERGILLUS/PENICILLIUM++

| | |
|---|---|
| **Natural Habitat** | Plant debris ·Seed ·Cereal crop |
| **Suitable Substrates in the Indoor Environment** | Grows on a wide range of substrates indoors ·Prevalent in water damaged buildings ·Foods (blue mold on cereals, fruits, vegetables, dried foods) ·House dust ·Fabrics ·Leather ·Wallpaper ·Wallpaper glue |
| **Allergic Potential** | Type I (hay fever, asthma) ·Type III (hypersensitivity) |
| **Potential Opportunist or Pathogen** | Possible depending on the species. |
| **Potential Toxins Produced** | Possible depending on the species. |
| **Free moisture required for mold growth** | Aw=0.75-0.94 |
| **Mode of Dissemination** | Wind ·Insects |
| **Industrial Uses** | Many depending on the species |
| **Other comments** | Spores of Aspergillus and Penicillium (including others such as Geosmithia, Goidanichella, Nalanthamala, Rasamsonia, Samsoniella, and Talaromyces) are small and spherical with few distinguishing characteristics. They cannot be differentiated by non-viable impaction sampling methods. Some species with very small spores may be undercounted in samples with high background debris. |



## BASIDIOSPORES

| | |
|---|---|
| **Natural Habitat** | Forest floors. Lawns .Plants (saprobes or pathogens depending on genus) |
| **Suitable Substrates in the Indoor Environment** | Depends on genus. Wood products |
| **Water Activity** | Unknown. |
| **Mode of Dissemination** | Forcible ejection. Wind currents. |
| **Allergic Potential** | Type I allergies (hay fever, asthma) . Type III (hypersensitivity pneumonitis) |
| **Potential or Opportunistic Pathogens** | Depends on genus. |
| **Industrial Uses** | Edible mushrooms are used in the food industry. |
| **Potential Toxins Produced** | Amanitins. monomethyl-hydrazine. muscarine. ibotenic acid. psilocybin. |
| **Other Comments** | Basidiospores are the result of sexual reproduction and formed on a structure called the basidium. Basidiospores belong to the members of the Phylum Basidiomycota, which includes mushrooms, shelf fungi, rusts, and smuts. |



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## BIPOLARIS++

| | |
|---|---|
| **Natural Habitat** | Plant saprophyte.Plant pathogen of many plants, causing leaf rot, crown rot, and root rot on warm season turf grasses |
| **Suitable Substrates in the Indoor Environment** | House plants, Indoor building materials |
| **Free moisture required for mold growth** | Unknown |
| **Mode of Dissemination** | Wind |
| **Allergic Potential** | Hay fever, asthma. Allergic and chronic invasive sinusitis |
| **Potential or Opportunistic Pathogens** | Invasive sinusitis, disseminated mycoses, peritonitis, keratitis, phaeohyphomycosis |
| **Potential Toxins** | Can potentially produce sterigmatocystin. |
| **Other Comments** | Includes Bipolaris, Drechslera, Exserohilum. |

## CLADOSPORIUM

| | |
|---|---|
| **Natural Habitat** | Dead plant matter. Straw. Soil. Woody plants |
| **Suitable Substrates in the Indoor Environment** | Fiberglass duct liner. Paint. Textiles. Found in high concentration in water-damaged building materials. |
| **Water Activity** | Aw 0.84-0.88 |
| **Mode of Dissemination** | Air |
| **Allergic Potential** | Type I (asthma and hay fever). |
| **Potential or Opportunistic Pathogens** | Edema. keratitis. onychomycosis. pulmonary infections. Sinusitis. |
| **Industrial Uses** | Produces 10 antigens. |
| **Potential Toxins Produced** | Cladosporin and Emodin. |

## CURVULARIA

| | |
|---|---|
| **Natural Habitat** | A worldwide saprophytic fungi, being isolated from dead plant material and soil. |
| **Suitable Substrates in the Indoor Environment** | Paper, wood products |
| **Free moisture required for mold growth** | Unknown |
| **Mode of Dissemination** | Wind |
| **Allergic Potential** | Hay fever, asthma, allergic fungal sinusitis |
| **Potential or Opportunistic Pathogens** | In immunocompromised patients can cause cerebral abscess, endocarditis, mycetoma, ocular keratitis, onychomycosis, and pneumonia. |

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## FUSARIUM++

| | |
|---|---|
| **Natural Habitat** | Soil. Plant pathogen causing root rot, stem rot, and wilt of many ornamental and crop plants. Genera with like spores include Fusarium, Albonectria, Atractium, Bisifusarium, Corinectria, Cosmospora, Cosmosporella, Cyanonectria, Dialonectria, Fusicolla, Geejayessia, Ilyonectria, Luteonectria, Macroconia, Mariannaea, Microcera, Neocosmospora, Neonectria, Nothofusarium, Pseudofusicolla Rectifusarium, Rugonectria, Scolecofusarium, Setofusarium, Stylonectria, Thelonectria, and Tumenectria. |
| **Suitable Substrates in the Indoor Environment** | Often found in humidifiers. Wet, cellulose-based building materials |
| **Water Activity** | Aw=0.86-0.91 |
| **Mode of Dissemination** | Insects. Water droplets, rain. Wind when spores become dry. |
| **Allergic Potential** | Type I allergies (hay fever, asthma). |
| **Potential or Opportunistic Pathogens** | Esophageal cancer is believed to happen after consumption of F. moniliforme infected corn. Keratitis. Endophthalmitis. Onychomycosis. Cutaneous infections. Mycetoma. Sinusitis. Pulmonary infections. Endocarditis. Peritonitis. Central venous catheter infections. Septic arthritis. Neurological disease in horses after consumption of F. moniliforme infected corn. Respiratory disease in pigs after consumption of F. moniliforme infected corn. |
| **Industrial Uses** | Biological Weapon. |
| **Potential Toxins Produced** | Trichothecenes. Zearalenone. Fumonisins. |
| **Other Comments** | Major plant pathogen. |
| **Reference** | Atlas of Moulds in Europe causing respiratory Allergy, Foundation for Allergy Research in Europe, Edited by Knud Wilken-Jensen and Suzanne Gravesen, ASK Publishing, Denmark, 1984. |

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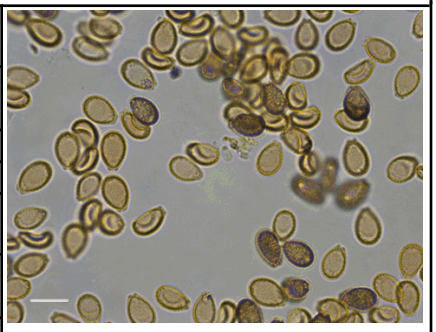
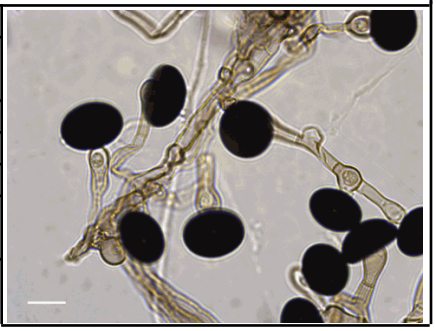
## GANODERMA

| | |
|---|---|
| **Natural Habitat** | Grows on conifers and hardwoods worldwide, causing white rot, root rot, and stem rot. |
| **Suitable Substrates in the Indoor Environment** | Unknown. |
| **Water Activity** | Unknown. |
| **Mode of Dissemination** | Wind. |
| **Allergic Potential** | Ganoderma species are known to cause allergies in people on a worldwide scale. |
| **Potential or Opportunistic Pathogens** | Unknown. |
| **Industrial Uses** | Biopulping of wood for the paper industry. Potential medicinal use due to: 1. Inhibition of Ras dependent cell transformation, 2. Antifibrotic activity, 3. Immunomodulating activity, 4. Free-radicle scavenging |
| **Potential Toxins Produced** | Unknown. |
| **Other Comments** | Used in traditional Chinese medicine as an herbal supplement. It is also known as a "shelf fungus" because the fruiting body forms a stalk-less shelf on the sides of trees and logs. It is sometimes called “artists conk” because when you scratch the white pores of the fruiting body, the white rubs away and exposes the brown hyphae underneath. Thus, pictures can be produced on the fruiting body. |
| **Reference** | References: Craig, R.L., Levetin, E. 2000. Multi-year study of Ganoderma aerobiology. Aerobiologia 16: 75-81. http://www.pfc.forestry.ca/diseases/CTD/Group/Heart/heart6_e.html |



## NIGROSPORA

| | |
|---|---|
| **Natural Habitat** | Common on live or dead grass, seeds & soil. |
| **Suitable Substrates in the Indoor Environment** | Unknown |
| **Water Activity** | Unknown |
| **Mode of Dissemination** | Forcibly projected. |
| **Allergic Potential** | Type 1 allergies (hey fever, asthma) |
| **Potential or Opportunistic Pathogens** | Keratitis & skin lesions |



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## PESTALOTIA++

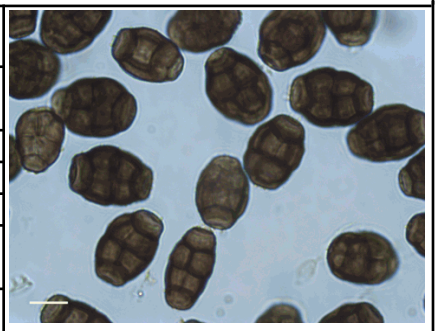
| | |
|---|---|
| **Suitable Substrates in the Indoor Environment** | Unknown; some require a living plant host for growth. |
| **Allergic Potential** | Unknown |
| **Potential Opportunist or Pathogen** | Unknown |
| **Potential Toxins Produced** | Unknown |
| **Free moisture required for mold growth** | Unknown |
| **Mode of Dissemination** | Unknown; air dispersal likely. |
| **Industrial Uses** | None known |

## PESTALOTIA-LIKE

| | |
|---|---|
| **Natural Habitat** | Saprophyte on dead leaves of different plants. Some are plant pathogens that attack foliage or fruit of different plant species. Genera with like spores include Pestalotia, Diploceras, Diversimediispora, Heterotruncatella, Monochaetia, Neopestalotiopsis, Parabartalinia, Pestalotiopsis, Pseudopestalotiopsis, Pseudosarcostroma, Truncatella, and others. |

## PITHOMYCES++

| | |
|---|---|
| **Natural Habitat** | A worldwide saprophytic fungi, being isolated from dead plant material and soil. |
| **Suitable Substrates in the Indoor Environment** | Paper |
| **Water Activity** | Requires high moisture for spore germination |
| **Mode of Dissemination** | Wind |
| **Allergic Potential** | Unknown |
| **Potential or Opportunistic Pathogens** | Mycosis in immunocompromised patients |
| **Other Comments** | Pithomyces++ includes spores of Pithomyces and Pseudopithomyces. |



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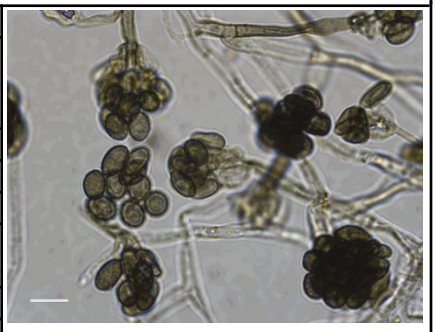
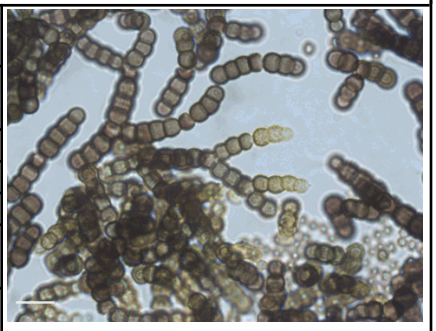
## STACHYBOTRYS/MEMNONIELLA

| | |
|---|---|
| **Natural Habitat** | Decaying plant materials and Soil. |
| **Suitable Substrates in the Indoor Environment** | Water damaged building materials such as: ceiling tiles, gypsum board, insulation backing, sheet rock, and wall paper. Paper. Textiles. |
| **Water Activity** | Aw=0.94 |
| **Mode of Dissemination** | Insects, Water, and Wind |
| **Allergic Potential** | Type I (hay fever, asthma) |
| **Potential or Opportunistic Pathogens** | Unknown. |
| **Industrial Uses** | Unknown. |
| **Potential Toxins Produced** | Mycotoxins produced by Stachybotrys include Roridin A, Roridin E, Roridin H, Roridin L-2, Satratoxin G, Satratoxin H, Isosatratoxin F, Verucarin A, Verucarin J, and Verrucariol. |
| **Other Comments** | Stachybotrys and Memnoniella are closely related and many Memnoniella species have been renamed under Stachybotrys. Mycologists are continuing to debate whether Stachybotrys and Memnoniella should be grouped or split apart (see references below). Stachybotrys may play a role in the development of sick building syndrome. The presence of this fungus can be significant due to its ability to produce mycotoxins. Exposure to the toxins can occur through inhalation, ingestion, or skin exposure. |
| **References** | Generic hyper-diversity in Stachybotriaceae. L. Lombard et al., Persoonia 36, 2016: 156–246.<br>Overview of Stachybotrys (Memnoniella) and current species status. Y. Wang et al., Fungal Diversity, 2015: DOI: 10.1007/s13225-014-0319-0. |



## TORULA++

| | |
|---|---|
| **Natural Habitat** | A worldwide saprophytic fungi, being isolated from dead plant material and soil. |
| **Suitable Substrates in the Indoor Environment** | Wood, paper, wicker furniture, baskets |
| **Water Activity** | Unknown |
| **Mode of Dissemination** | Wind |
| **Allergic Potential** | Hay fever, asthma |
| **Potential or Opportunistic Pathogens** | Unknown |
| **Other Comments** | Spores that appear morphologically similar to Torula include Bahusaganda, Bahusandhika, Pseudotorula and others. |



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## 5. References and Informational Links

### Books


- Bioaerosols: Assessment and Control. Janet Macher, Ed., American Conference of Governmental Industrial Hygienists, Cincinnati, OH 1999.
- Exposure Guidelines for Residential Indoor Air Quality. Environmental Health Directorate, Health Protection Branch, Health Canada, Ottawa, Ontario, 1989.
- Fungal Contamination in Public Buildings: Health Effects and Investigation Methods. Health Canada, Ottawa, Ontario, 2004.
- IICRC: S500 Standard and Reference Guide for Professional Water Damage Restoration. 3rd Edition, Institute of Inspection, Cleaning, and Restoration Certification, Vancouver, WA, 2006

  IICRC: S520 Standard and Reference Guide for Professional Mold Remediation. 1st Edition, Institute of Inspection, Cleaning, and Restoration Certification, Vancouver, WA, 2004
- Field Guide for the Determination of Biological Contaminants in Environmental Samples. 2nd Edition, American Industrial Hygiene Association, 2005.


### Consumer Links

Read the full text of AIHA's "The Facts About Mold" consumer brochure.
https://aiha-assets.sfo2.digitaloceanspaces.com/AIHA/resources/Facts-About-Mold-A-Consumer-Focus-Fact-Sheet.pdf

The Occupational Safety and Health Administration (OSHA)
http://www.osha.gov/SLTC/molds/index.html

CDC Mold Facts
https://www.cdc.gov/mold-health/about/index.html?CDC_AAref_Val=https://www.cdc.gov/mold/faqs.htm

CDC Stachybotrys - Questions and answers on Stachybotrys chartarum and other molds
https://www.cdc.gov/mold-health/data-research/facts-stats/?CDC_AAref_Val=https://www.cdc.gov/mold/stachy.htm

IOM, NAS: Clearing the Air: Asthma and Indoor Air Exposures
https://www.epa.gov/indoor-air-quality-iaq/should-you-have-air-ducts-your-home-cleaned

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National Library of Medicine-Mold website
http://www.nlm.nih.gov/medlineplus/molds.html

California Department of Health Services (CADOHS)
https://www.cdph.ca.gov/Programs/cls/dehl/ehl/Pages/AQS/Mold.aspx

Minnesota Department of Health
https://www.health.state.mn.us/communities/environment/air/mold/index.html

New York City Department of Health and Mental Hygiene
https://www.nyc.gov/site/doh/health/health-topics/mold.page

**EPA**

"Should You Have the Air Ducts in Your Home Cleaned?"
https://www.epa.gov/indoor-air-quality-iaq/should-you-have-air-ducts-your-home-cleaned

General information about molds and actions that can be taken to clean up or prevent a mold problem.
https://www.epa.gov/mold/mold-cleanup-your-home

“A Brief Guide to Mold, Moisture, and Your Home” - Includes basic information on mold, cleanup guidelines, and moisture and mold prevention
https://www.epa.gov/mold/brief-guide-mold-moisture-and-your-home

“Mold Remediation in Schools and Commercial Buildings” - Information on remediation in schools and commercial property, references for potential mold and moisture remediators.
https://www.epa.gov/mold/mold-remediation-schools-and-commercial-buildings-guide

**FEMA**

“Homes That Were Flooded May Harbor Mold Problems” - Information and tips for cleaning mold.
https://www.fema.gov/press-release/20210318/fact-sheet-mold-problems-and-solutions

“Dealing With Mold & Mildew in Your Flood Damaged Home.
http://www.fema.gov/pdf/rebuild/recover/fema_mold_brochure_english.pdf

**EMSL Analytical, Inc.**
2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080
Phone: (770) 956-9150 Fax: (770) 956-9181 Web: http://www.EMSL.com Email:atlantalab@emsl.com

**Attn:** Lindsey Hodges
Amerispec Home Inspection Service
PO Box 350
Loganville, GA 30052

EMSL Order: 072509046
Customer ID: 00000
Collected: 9/11/2025
Received: 9/12/2025
Analyzed: 9/15/2025

**Proj:** 123 Anywhere St

## 6. Important Terms, Conditions, and Limitations

A. Sample Retention

Samples analyzed by EMSL will be retained for 60 days after analysis date Storage beyond this period is available for a fee with written request prior to the initial 30 day period. Samples containing hazardous/toxic substances which require special handling will be returned to the client immediately. EMSLreserves the right to charge a sample disposal fee or return samples to the client.

B. Change Orders and Cancellation

All changes in the scope of work or turnaround time requested by the client after sample acceptance must be made in writing and confirmed in writing by EMSL. If requested changes result in a change in cost the client must accept payment responsibility. In the event work is cancelled by a client, EMSL will complete work in progress and invoice for work completed to the point of cancellation notice. EMSL is not responsible for. holding times that are exceeded due to such changes.

C. Warranty

EMSL warrants to its clients that all services provided hereunder shall be performed in accordance with established and recognized analytical testing procedures and with reasonable care in accordance with applicable federal, state and local laws. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied. EMSL disclaims any other warranties, express or implied, including a warranty of fitness for particular purpose and warranty of merchantability.

D. Limits of Liability

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. EMSL will not be held responsible for the improper selection of sampling devices even if we supply the device to the user. The user of the sampling device has the sole responsibility to select the proper sampler and sampling conditions to insure that a valid sample is taken for analysis. Any resampling performed will be at the sole discretion of EMSL, the cost of which shall be limited to the reasonable value of the original sample delivery group (SDG) samples. In no event shall EMSL be liable to a client or any third party, whether based upon theories

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of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder.

E. Indemnification

Client shall indemnify EMSL and its officers, directors and employees and hold each of them harmless for any liability, expense or cost, including reasonable attorney's fees, incurred by reason of any third party claim in connection with EMSL services, the test result data or its use by client