



# EMSL Analytical, Inc.

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**EMSL Order:** 142002938  
**Customer ID:** EMSL14  
**Customer PO:**  
**Project ID:**

**Attention:** Christopher Goulah  
EMSL - BUFFALO  
490 Rowley Rd  
Depew, NY 14043

**Phone:** (716) 651-0030  
**Fax:** (716) 651-0394  
**Collected Date:** 07/23/2020  
**Received Date:** 08/04/2020 4:42 PM  
**Analyzed Date:** 08/04/2020

**Project:**

## Spore Trap ASSESSMENT Report™ Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number	Particle Identification	Raw Count	Count/M³	% of Total	Interpretation Guideline
142002938-0001	Alternaria (Ulocladium)	-	-	-	
	Ascospores	4	80	30.8	
Client Sample ID 1	Aspergillus/Penicillium	-	-	-	
	Basidiospores	4	80	30.8	
	Bipolaris++	-	-	-	
Location Livingroom	Chaetomium	-	-	-	
	Cladosporium	1	20	7.7	
	Curvularia	2	40	15.4	
Sample Volume (L) 150	Epicoccum	1	20	7.7	
	Fusarium	-	-	-	
	Ganoderma	-	-	-	
Sample Type Inside	Myxomycetes++	-	-	-	
	Pithomyces++	-	-	-	
	Rust	-	-	-	
Comments	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Triadelphia	1	20	7.7	
	<b>Total Fungi</b>	<b>13</b>	<b>260</b>	<b>100</b>	
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

Analytical Sensitivity 600x: 21 counts/cubic meter Skin Fragments: 1 1 to 4 (low to high)  
 Analytical Sensitivity 300x \*: 7 counts/cubic meter Fibrous Particulate: 1 1 to 4 (low to high)  
 Background: 1 1 to 4 (low to high); 5 (overloaded)

No discernable field blank was submitted with this group of samples.  
++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

- Concentration at or below background
- Concentration above background
- 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.

High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "\*" Denotes particles found at 300X. "-" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.  
Samples analyzed by EMSL Analytical, Inc. Depew, NY A2LA Accredited Environmental Testing Cert #2845.24

Initial report from: 08/04/2020 02:56 PM

For information on the fungi listed in this report, please visit the Resources section at [www.emsl.com](http://www.emsl.com)



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Lab Sample Number	Particle Identification	Raw Count	Count/M <sup>3</sup>	% of Total	Interpretation Guideline
142002938-0002	Alternaria (Ulocladium)	-	-	-	
	Ascospores	2	40	8.3	
	Aspergillus/Penicillium	-	-	-	
Client Sample ID 2	Basidiospores	9	200	41.7	
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
	Cladosporium	4	80	16.7	
Location Bathroom	Curvularia	4	80	16.7	
	Epicoccum	-	-	-	
	Fusarium	-	-	-	
Sample Volume (L) 150	Ganoderma	-	-	-	
	Myxomycetes++	-	-	-	
	Pithomyces++	-	-	-	
Sample Type Inside	Rust	-	-	-	
	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	2	40	8.3	
Comments	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Triadelphia	2	40	8.3	
	<b>Total Fungi</b>	<b>23</b>	<b>480</b>	<b>100</b>	
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	
Analytical Sensitivity 600x: 21		counts/cubic meter	Skin Fragments: 2		1 to 4 (low to high)
Analytical Sensitivity 300x *: 7		counts/cubic meter	Fibrous Particulate: 1		1 to 4 (low to high)
			Background: 1		1 to 4 (low to high); 5 (overloaded)

No discernable field blank was submitted with this group of samples.  
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Concentration at or below background

Concentration above background

Concentration 10x or more above background

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	Particle Identification	Raw Count	Count/M <sup>3</sup>	% of Total	Interpretation Guideline
<b>Lab Sample Number</b> 142002938-0003	Alternaria (Ulocladium)	-	-	-	
	Ascospores	21	440	47.8	
<b>Client Sample ID</b> 3	Aspergillus/Penicillium	-	-	-	
	Basidiospores	12	250	27.2	
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
<b>Location</b> Exterior	Cladosporium	11	230	25	
	Curvularia	-	-	-	
	Epicoccum	-	-	-	
	Fusarium	-	-	-	
<b>Sample Volume (L)</b> 150	Ganoderma	-	-	-	
	Myxomycetes++	-	-	-	
	Pithomyces++	-	-	-	
<b>Sample Type</b> Background	Rust	-	-	-	
	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
<b>Comments</b>	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Triadelphia	-	-	-	
	<b>Total Fungi</b>	<b>44</b>	<b>920</b>	<b>100</b>	
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

Analytical Sensitivity 600x: 21 counts/cubic meter      Skin Fragments: 1 1 to 4 (low to high)  
 Analytical Sensitivity 300x \*: 7 counts/cubic meter      Fibrous Particulate: 1 1 to 4 (low to high)  
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Christopher Goulah, Microbiology Manager  
or other Approved Signatory

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