



# 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  
**Analyzed Date:** 08/04/2020

**Project:**

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

Lab Sample Number	Particle Identification	Sample Concentration (counts/m³)	Background Concentration (counts/m³)	Background Corrected (counts/m³)
142002938-0001	Alternaria (Ulocladium)	None Detected	None Detected	Equal To Background
	Ascospores	80	440	Less than Background
Client Sample ID	Aspergillus/Penicillium	None Detected	None Detected	Equal To Background
	Basidiospores	80	250	Less than Background
1	Bipolaris++	None Detected	None Detected	Equal To Background
	Chaetomium	None Detected	None Detected	Equal To Background
Location	Cladosporium	20	230	Less than Background
	Curvularia	40	None Detected	40
Livingroom	Epicoccum	20	None Detected	20
	Fusarium	None Detected	None Detected	Equal To Background
Sample Volume (L)	Ganoderma	None Detected	None Detected	Equal To Background
	Myxomycetes++	None Detected	None Detected	Equal To Background
150	Pithomyces++	None Detected	None Detected	Equal To Background
	Rust	None Detected	None Detected	Equal To Background
Sample Type	Scopulariopsis/Microascus	None Detected	None Detected	Equal To Background
	Stachybotrys/Memnoniella	None Detected	None Detected	Equal To Background
Inside	Unidentifiable Spores	None Detected	None Detected	Equal To Background
	Zygomycetes	None Detected	None Detected	Equal To Background
Comments	Triadelphia	20	None Detected	20
	<b>Total Fungi</b>	<b>260</b>	<b>920</b>	<b>Less than Background</b>
Other				
	Hyphal Fragment	None Detected	None Detected	Equal To Background
	Insect Fragment	None Detected	None Detected	Equal To Background
	Pollen	None Detected	None Detected	Equal To Background
	Analytical Sensitivity 300x:	21	counts/cubic meter	
	Analytical Sensitivity 600x:	7*	counts/cubic meter	
	Skin Fragments:	1	1 to 4 (low to high)	
	Fibrous Particulate:	1	1 to 4 (low to high)	
	Background:	1	1 to 4 (low to high); 5 (overloaded)	

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

Christopher Goulah, Microbiology Manager  
or other Approved Signatory

No discernable field blank was submitted with this group of samples.

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

	Particle Identification	Sample Concentration (counts/m³)	Background Concentration (counts/m³)	Background Corrected (counts/m³)
<b>Lab Sample Number</b>	Alternaria (Ulocladium)	None Detected	None Detected	Equal To Background
	Ascospores	40	440	Less than Background
142002938-0002	Aspergillus/Penicillium	None Detected	None Detected	Equal To Background
<b>Client Sample ID</b>	Basidiospores	200	250	Less than Background
	Bipolaris++	None Detected	None Detected	Equal To Background
2	Chaetomium	None Detected	None Detected	Equal To Background
	Cladosporium	80	230	Less than Background
<b>Location</b> Bathroom	Curvularia	80	None Detected	80
	Epicoccum	None Detected	None Detected	Equal To Background
	Fusarium	None Detected	None Detected	Equal To Background
	Ganoderma	None Detected	None Detected	Equal To Background
<b>Sample Volume (L)</b>	Myxomycetes++	None Detected	None Detected	Equal To Background
	Pithomyces++	None Detected	None Detected	Equal To Background
	Rust	None Detected	None Detected	Equal To Background
150	Scopulariopsis/Microascus	None Detected	None Detected	Equal To Background
	Stachybotrys/Memnoniella	40	None Detected	40
<b>Sample Type</b>	Unidentifiable Spores	None Detected	None Detected	Equal To Background
	Zygomycetes	None Detected	None Detected	Equal To Background
	Triadelphia	40	None Detected	40
<b>Comments</b>	<b>Total Fungi</b>	<b>480</b>	<b>920</b>	<b>Less than Background</b>
	Other			
	Hyphal Fragment	None Detected	None Detected	Equal To Background
	Insect Fragment	None Detected	None Detected	Equal To Background
	Pollen	None Detected	None Detected	Equal To Background
	Analytical Sensitivity 300x:	21	counts/cubic meter	
	Analytical Sensitivity 600x:	7*	counts/cubic meter	
	Skin Fragments:	2	1 to 4 (low to high)	
	Fibrous Particulate:	1	1 to 4 (low to high)	
	Background:	1	1 to 4 (low to high); 5 (overloaded)	

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

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	Particle Identification	Sample Concentration (counts/m³)	Background Concentration (counts/m³)	Background Corrected (counts/m³)
<b>Lab Sample Number</b>	Alternaria (Ulocladium)	None Detected	N/A	N/A
	Ascospores	440	N/A	N/A
142002938-0003	Aspergillus/Penicillium	None Detected	N/A	N/A
<b>Client Sample ID</b>	Basidiospores	250	N/A	N/A
	Bipolaris++	None Detected	N/A	N/A
3	Chaetomium	None Detected	N/A	N/A
	Cladosporium	230	N/A	N/A
<b>Location</b> Exterior	Curvularia	None Detected	N/A	N/A
	Epicoccum	None Detected	N/A	N/A
	Fusarium	None Detected	N/A	N/A
	Ganoderma	None Detected	N/A	N/A
	Myxomycetes++	None Detected	N/A	N/A
<b>Sample Volume (L)</b> 150	Pithomyces++	None Detected	N/A	N/A
	Rust	None Detected	N/A	N/A
	Scopulariopsis/Microascus	None Detected	N/A	N/A
	Stachybotrys/Memnoniella	None Detected	N/A	N/A
<b>Sample Type</b> Background	Unidentifiable Spores	None Detected	N/A	N/A
	Zygomycetes	None Detected	N/A	N/A
	Triadelphia	None Detected	N/A	N/A
<b>Comments</b>	<b>Total Fungi</b>	<b>920</b>	<b>N/A</b>	<b>N/A</b>
	Other			
	Hyphal Fragment	None Detected	N/A	N/A
	Insect Fragment	None Detected	N/A	N/A
	Pollen	None Detected	N/A	N/A
	Analytical Sensitivity 300x:	21	counts/cubic meter	
	Analytical Sensitivity 600x:	7*	counts/cubic meter	
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