



EMSL Analytical, Inc.

490 Rowley Road Depew NY 14043
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<http://www.EMSL.com> / buffalolab@emsl.com

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 04:42 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)	-	-	-	Acceptable
	Ascospores	4	80	30.8	
	Aspergillus/Penicillium	-	-	-	
Client Sample ID 1	Basidiospores	4	80	30.8	Acceptable
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
Location Livingroom	Cladosporium	1	20	7.7	Acceptable
	Curvularia	2	40	15.4	
	Epicoccum	1	20	7.7	
Sample Volume (L) 150	Fusarium	-	-	-	Slightly Elevated
	Ganoderma	-	-	-	
	Myxomycetes++	-	-	-	
Sample Type Inside	Pithomyces++	-	-	-	Slightly Elevated
	Rust	-	-	-	
	Scopulariopsis/Microascus	-	-	-	
Comments	Stachybotrys/Memnoniella	-	-	-	Acceptable
	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Triadelphia	1	20	7.7	Slightly Elevated
	Total Fungi	13	260	100	Acceptable
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

Analytical Sensitivity 600x: **21** 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: **1** 1 to 4 (low to high);5 (overloaded)

Acceptable
Slightly Elevated
ELEVATED

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.

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

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



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	Particle Identification	Raw Count	Count/M³	% of Total	Interpretation Guideline
Lab Sample Number 142002938-0002	Alternaria (Ulocladium)	-	-	-	
	Ascospores	2	40	8.3	Acceptable
	Aspergillus/Penicillium	-	-	-	
Client Sample ID 2	Basidiospores	9	200	41.7	Acceptable
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
Location Bathroom	Cladosporium	4	80	16.7	Acceptable
	Curvularia	4	80	16.7	Slightly Elevated
	Epicoccum	-	-	-	
Sample Volume (L) 150	Fusarium	-	-	-	
	Ganoderma	-	-	-	
	Myxomycetes++	-	-	-	
Sample Type Inside	Pithomyces++	-	-	-	
	Rust	-	-	-	
	Scopulariopsis/Microascus	-	-	-	
Comments	Stachybotrys/Memnoniella	2	40	8.3	Slightly Elevated
	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Triadelphia	2	40	8.3	Slightly Elevated
	Total Fungi	23	480	100	Acceptable
	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)

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

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	Particle Identification	Raw Count	Count/M³	% of Total	Interpretation Guideline
Lab Sample Number 142002938-0003	Alternaria (Ulocladium)	-	-	-	
	Ascospores	21	440	47.8	
	Aspergillus/Penicillium	-	-	-	
Client Sample ID 3	Basidiospores	12	250	27.2	
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
Location Exterior	Cladosporium	11	230	25	
	Curvularia	-	-	-	
	Epicoccum	-	-	-	
Sample Volume (L) 150	Fusarium	-	-	-	
	Ganoderma	-	-	-	
	Myxomycetes++	-	-	-	
Sample Type Background	Pithomyces++	-	-	-	
	Rust	-	-	-	
	Scopulariopsis/Microascus	-	-	-	
Comments	Stachybotrys/Memnoniella	-	-	-	
	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Triadelphia	-	-	-	
	Total Fungi	44	920	100	
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

Analytical Sensitivity 600x: **21** counts/cubic meter
Analytical Sensitivity 300x *: **7** counts/cubic meter

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Fibrous Particulate: **1** 1 to 4 (low to high)
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Concentration at or below background

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Christopher Goulah, Microbiology Manager
or other Approved Signatory

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