EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
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

Project:

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

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

Lab Sample Number
142002938-0001

Client Sample ID
1

Location
Livingroom

Sample Volume (L)
150

Sample Type
Inside

Comments

Particle Identification	Raw Count	Count/M³	% of Total	Interpretation Guideline
Alternaria (Ulocladium)	-	-	-	
Ascospores	4	80	30.8	☑ ✹
Aspergillus/Penicillium	-	-	-	
Basidiospores	4	80	30.8	☑ 🌲 ✹
Bipolaris++	-	-	-	
Chaetomium	-	-	-	
Cladosporium	1	20	7.7	☑ ✹
Curvularia	2	40	15.4	⚠ 🌲 ✹
Epicoccum	1	20	7.7	⚠ 🌲 ✹
Fusarium	-	-	-	
Ganoderma	-	-	-	
Myxomycetes++	-	-	-	
Pithomyces++	-	-	-	
Rust	-	-	-	
Scopulariopsis/Microascus	-	-	-	
Stachybotrys/Memnoniella	-	-	-	
Unidentifiable Spores	-	-	-	
Zygomycetes	-	-	-	
Triadelphia	1	20	7.7	⚠
Total Fungi	**13**	**260**	**100**	☑
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)

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

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

Lab Sample Number
142002938-0002

Client Sample ID
2

Location
Bathroom

Sample Volume (L)
150

Sample Type
Inside

Comments

Particle Identification	Raw Count	Count/M³	% of Total	Interpretation Guideline
Alternaria (Ulocladium)	-	-	-	
Ascospores	2	40	8.3	☑ ✹
Aspergillus/Penicillium	-	-	-	
Basidiospores	9	200	41.7	☑ 🌲 ✹
Bipolaris++	-	-	-	
Chaetomium	-	-	-	
Cladosporium	4	80	16.7	☑ ✹
Curvularia	4	80	16.7	⚠ 🌲 ✹
Epicoccum	-	-	-	
Fusarium	-	-	-	
Ganoderma	-	-	-	
Myxomycetes++	-	-	-	
Pithomyces++	-	-	-	
Rust	-	-	-	
Scopulariopsis/Microascus	-	-	-	
Stachybotrys/Memnoniella	2	40	8.3	⚠ ✹ ☣ 💧
Unidentifiable Spores	-	-	-	
Zygomycetes	-	-	-	
Triadelphia	2	40	8.3	⚠
Total Fungi	**23**	**480**	**100**	☑
Hyphal Fragment	-	-	-	
Insect Fragment	-	-	-	
Pollen	-	-	-	

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

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☑ Concentration at or below background
⚠ Concentration above background
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Lab Sample Number
142002938-0003

Client Sample ID
3

Location
Exterior

Sample Volume (L)
150

Sample Type
Background

Comments

Particle Identification	Raw Count	Count/M³	% of Total	Interpretation Guideline
Alternaria (Ulocladium)	-	-	-	
Ascospores	21	440	47.8	
Aspergillus/Penicillium	-	-	-	
Basidiospores	12	250	27.2	
Bipolaris++	-	-	-	
Chaetomium	-	-	-	
Cladosporium	11	230	25	
Curvularia	-	-	-	
Epicoccum	-	-	-	
Fusarium	-	-	-	
Ganoderma	-	-	-	
Myxomycetes++	-	-	-	
Pithomyces++	-	-	-	
Rust	-	-	-	
Scopulariopsis/Microascus	-	-	-	
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

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)

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Christopher Goulah, Microbiology Manager
or other Approved Signatory

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