



EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Phone/Fax: (704) 525-2205 / (704) 525-2382
http://www.EMSL.com / charlottelab@emsl.com

Order ID: 412008292
Customer ID: BMHN29
Customer PO:
Project ID:

Attn: Michael Van Hall
Blue Mountain Home Inspections

Phone: (828) 484-2202

Fax:

Collected:

Received: 09/29/2020

Analyzed: 10/01/2020

Info about each spore type

Proj: [Redacted]

Fungal type

Total spores per sample

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

	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
412008292-0001	Alternaria (Ulocladium)	-	-	-	
	Ascospores	103	2170	21.7	
Client Sample ID	Aspergillus/Penicillium	-	-	-	
A-1	Basidiospores	348	7340	73.3	
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
Location	Cladosporium	23	490	4.9	
Outdoor	Curvularia	-	-	-	
	Epicoccum	-	-	-	
Sample Volume (L)	Fusarium	-	-	-	
150	Ganoderma	1	20	0.2	
	Myxomycetes++	-	-	-	
	Pithomyces++	-	-	-	
Sample Type	Rust	-	-	-	
Background	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
Comments	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Paecilomyces-like	-	-	-	
	Total Fungi	475	10020	100	
	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*		Fibrous Particulate: 1		1 to 4 (low to high)	
		Background: 1		1 to 4 (low to high); 5 (overloaded)	

Where the sample was taken

Location
Outdoor



- 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

Lee Plumley

Lee Plumley, Laboratory Manager
or Other Approved Signatory

Initial report from: 10/01/2020 15:44:54

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For information on the fungi listed in this report please visit the Resources section at www.emsl.com



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Proj: [REDACTED]

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

Client Sample ID	Particle Identification	Raw Count	(Count/m ³)	% of Total	Interpretation Guideline
412008292-0002	Alternaria (Ulocladium)	-	-	-	
	Ascospores	8	200	13.5	Acceptable
A-2	Aspergillus/Penicillium	4	80	5.4	Slightly Elevated
	Basidiospores	38	800	54.1	Acceptable
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
	Cladosporium	14	300	20.3	Acceptable
	Curvularia	2	40	2.7	Slightly Elevated
	Epicoccum	-	-	-	
	Fusarium	-	-	-	
	Ganoderma	-	-	-	
	Myxomycetes++	2	40	2.7	Slightly Elevated
	Pithomyces++	-	-	-	
	Rust	-	-	-	
	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Paecilomyces-like	1	20	1.4	Slightly Elevated
	Total Fungi	69	1480	100	Acceptable
	Hyphal Fragment	2	40	-	Slightly Elevated
	Insect Fragment	-	-	-	
	Pollen	1	20	-	Slightly Elevated
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: 2		1 to 4 (low to high); 5 (overloaded)	

Where the sample was taken

Location
Kitchen

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.

"background" means the outdoor sample so used "outdoor sample" in place of the word background and it will make more sense

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

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

	Particle Identification	Raw Count	(Count/m ³)	% of Total	Interpretation Guideline
412008292-0003	Alternaria (Ulocladium)	-	-	-	
	Ascospores	1	20	2	Acceptable
Client Sample ID	Aspergillus/Penicillium	23	490	49	ELEVATED
A-3	Basidiospores	20	420	42	Acceptable
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
Location	Cladosporium	3	60	6	Acceptable
Basement	Curvularia	-	-	-	
	Epicoccum	-	-	-	
Sample Volume (L)	Fusarium	-	-	-	
150	Ganoderma	-	-	-	
	Myxomycetes++	2*	10*	1	Slightly Elevated
	Pithomyces++	-	-	-	
Sample Type	Rust	-	-	-	
Inside	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
Comments	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Paecilomyces-like	-	-	-	
	Total Fungi	49	1000	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: 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.
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