



EMSL Analytical, Inc.

3303 PARKWAY CENTER COURT Orlando, FL 32808

Phone: (407) 599-5887 Fax: (407) 599-9063 Web: <http://www.EMSL.com> Email: orlandolab@emsl.com

Attn: J.T. Edgren
Elite Mold Services
4700 Millenia Blvd. Suite 175
Orlando, FL 32839

EMSL Order: 342012557
Customer ID: EMDS78
Collected: 9/04/2020
Received: 9/04/2020
Analyzed: 9/08/2020

Proj:

2. Analytical Results

See attached data reports and charts.

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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/m³)	% of Total	Interpretation Guideline
342012557-0001	Alternaria (Ulocladium)	-	-	-	
	Ascospores	11	480	14	
Client Sample ID	Aspergillus/Penicillium	-	-	-	
3051 7987	Basidiospores	60	2600	75.8	
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
Location	Cladosporium	1	40	1.2	
Outside	Curvularia	3	100	2.9	
	Epicoccum	-	-	-	
Sample Volume (L)	Fusarium	1*	10*	0.3	
	Ganoderma	1	40	1.2	
75	Myxomycetes++	1*	10*	0.3	
	Pithomyces++	-	-	-	
Sample Type	Rust	-	-	-	
	Scopulariopsis/Microascus	-	-	-	
Background	Stachybotrys/Memnoniella	-	-	-	
Comments	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Monodictys	1*	10*	0.3	
	Nigrospora	1	40	1.2	
	Pyricularia	3	100	2.9	
	Total Fungi	83	3430	100	
	Hyphal Fragment	1	40	-	
	Insect Fragment	-	-	-	
	Pollen	1	40	-	
Analytical Sensitivity 600x: 44 counts/cubic meter		Skin Fragments: 1		1 to 4 (low to high)	
Analytical Sensitivity 300x *: 13* counts/cubic meter		Fibrous Particulate: 2		1 to 4 (low to high)	
		Background: 3		1 to 4 (low to high); 5 (overloaded)	

- 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

Yessica Martinez Seeman, Microbiology
Technical Manager, Central Florida

Initial report from: 09/08/2020 11:08:28

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL AIHA-LAP, LLC EMLAP 163563

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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
342012557-0002	Alternaria (Ulocladium)	-	-	-	
	Ascospores	1*	10*	0.2	Acceptable
Client Sample ID	Aspergillus/Penicillium	75	3300	74	ELEVATED
3051 7977	Basidiospores	-	-	-	
	Bipolaris++	-	-	-	
Location	Chaetomium	-	-	-	
Family Room	Cladosporium	26	1100	24.7	ELEVATED
	Curvularia	1	40	0.9	Acceptable
	Epicoccum	-	-	-	
Sample Volume (L)	Fusarium	-	-	-	
75	Ganoderma	1*	10*	0.2	Acceptable
	Myxomycetes++	-	-	-	
Sample Type	Pithomyces++	-	-	-	
Inside	Rust	-	-	-	
	Scopulariopsis/Microascus	-	-	-	
Comments	Stachybotrys/Memnoniella	-	-	-	
	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Monodictys	-	-	-	
	Nigrospora	-	-	-	
	Pyricularia	-	-	-	
	Total Fungi	104	4460	100	Slightly Elevated
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

Analytical Sensitivity 600x: **44** counts/cubic meter
Analytical Sensitivity 300x *: **13*** counts/cubic meter

Skin Fragments: **2** 1 to 4 (low to high)
Fibrous Particulate: **2** 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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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
342012557-0003	Alternaria (Ulocladium)	-	-	-	
	Ascospores	-	-	-	
Client Sample ID	Aspergillus/Penicillium	22	960	88.1	ELEVATED
3051 7992	Basidiospores	1	40	3.7	Acceptable
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
Location	Cladosporium	5*	70*	6.4	Slightly Elevated
Living Room	Curvularia	1*	10*	0.9	Acceptable
	Epicoccum	-	-	-	
Sample Volume (L)	Fusarium	-	-	-	
75	Ganoderma	-	-	-	
	Myxomycetes++	1*	10*	0.9	Acceptable
	Pithomyces++	-	-	-	
Sample Type	Rust	-	-	-	
Inside	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
Comments	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Monodictys	-	-	-	
	Nigrospora	-	-	-	
	Pyricularia	-	-	-	
	Total Fungi	30	1090	100	Acceptable
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	
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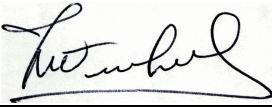
Proj:

Surface Contamination ASSESSMENT Report TM Swab Samples Based on Direct Microscopic Analysis MICRO-SOP-200

Sample Information	Sample Location	Surface Contamination Rating (Referenced in IICRC S520)	Recommended Remedial Action (Referenced in IICRC S520)
Lab Sample #: 342012557-0004 Client Sample ID: S-1	Living AC Duct	Condition 3: Actual fungal growth	 Remediate to a Condition 1 status

Definitions (from IICRC S520 Standard)	
	Condition 1 (normal fungal ecology): an indoor environment that may have settled spores, fragments, or traces of actual growth.
	Condition 2 (settled spores): an indoor environment which is primarily contaminated with settled spores that were dispersed directly or indirectly from a Condition 3 area, and which may have traces of actual growth.
	Condition 3 (actual growth): an indoor environment contaminated with the presence of actual mold growth and associated spores. Actual growth includes growth that is active or dormant, visible or hidden.

Data provided in this report are intended to facilitate the assessment process performed by an Indoor Environmental Professional (IEP). The IEP is responsible for final data interpretation and remediation conclusions based on their assessment which may include information on the building history, an inspection, sampling, and laboratory data. Post-remediation verification testing recommended after any remediation.


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Test Report: Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Swab Samples (EMSL Method MICRO-SOP-200)

Lab Sample Number:	342012557-0004				
Client Sample ID:	S-1				
Sample Location:	Living AC Duct				
Spore Types	Category				
Alternaria (Ulocladium)	-				
Ascospores	-				
Aspergillus/Penicillium	-				
Basidiospores	-				
Bipolaris++	-				
Chaetomium	-				
Cladosporium	*High*				
Curvularia	-				
Epicoccum	-				
Fusarium	-				
Ganoderma	-				
Myxomycetes++	-				
Pithomyces++	-				
Rust	-				
Scopulariopsis/Microascus	-				
Stachybotrys/Memnoniella	-				
Unidentifiable Spores	-				
Zygomycetes	-				
Hyphal Fragment	Medium				
Insect Fragment	Rare				
Pollen	-				

Category: Count/per area analyzed

Rare: 1 to 10 Low: 11 to 100 Medium: 101 to 1000 High: >1000

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

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Technical Manager, Central Florida

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

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