



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0262
<http://www.EMSL.com> / cinnmicrolab@emsl.com

Order ID: 372312821
 Customer ID: SPOT50
 Customer PO:
 Project ID:

Attn: Asbestos Division
 Spotts Stevens and McCoy, Inc.
 1047 North Park Road
 Reading, PA 19610

Phone: (610) 621-2000
Fax:
Collected: 08/16/2023
Received: 08/17/2023
Analyzed: 08/21/2023

Proj: 109944.0017 / Lyter Elem. School

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
372312821-0001	Alternaria (Ulocladium)	-	-	-	Acceptable
	Ascospores	5	200	5.4	Acceptable
Client Sample ID L-8-16-01	Aspergillus/Penicillium	-	-	-	Acceptable
	Basidiospores	77	3400	92.1	Acceptable
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
Location Cafe	Cladosporium	2	90	2.4	Acceptable
	Curvularia	-	-	-	Acceptable
	Epicoccum	-	-	-	Acceptable
Sample Volume (L) 75	Fusarium++	-	-	-	Acceptable
	Ganoderma	-	-	-	Acceptable
	Myxomycetes++	-	-	-	Acceptable
	Pithomyces++	-	-	-	Acceptable
Sample Type Inside	Rust	-	-	-	Acceptable
	Scopulariopsis/Microascus	-	-	-	Acceptable
	Stachybotrys/Memnoniella	-	-	-	Acceptable
Comments	Unidentifiable Spores	-	-	-	Acceptable
	Arthrinium	-	-	-	Acceptable
	Peronospora++	-	-	-	Acceptable
	Polythrincium	-	-	-	Acceptable
	Pyricularia	-	-	-	Acceptable
	Total Fungi	84	3690	100	Acceptable
	Hyphal Fragment	-	-	-	Acceptable
	Insect Fragment	-	-	-	Acceptable
	Pollen	-	-	-	Acceptable

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

Bipolaris++ = Bipolaris / Drechslera / Exserohilum
 Myxomycetes++ = Myxomycetes / Sluit /

Initial report from: 08/21/2023 15:15:27

Vincent Iuzzolino, M.S., Laboratory Director
 or Other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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



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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312821-0002	Alternaria (Ulocladium)	-	-	-	Acceptable
	Ascospores	1	40	4.1	Acceptable
Client Sample ID	Aspergillus/Penicillium	-	-	-	Acceptable
L-8-16-02	Basidiospores	20	880	90.7	Acceptable
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
Location	Cladosporium	1	40	4.1	Acceptable
C3	Curvularia	-	-	-	Acceptable
	Epicoccum	-	-	-	Acceptable
Sample Volume (L)	Fusarium++	-	-	-	Acceptable
	Ganoderma	-	-	-	Acceptable
75	Myxomycetes++	-	-	-	Acceptable
	Pithomyces++	1*	10*	1	Acceptable
Sample Type	Rust	-	-	-	Acceptable
Inside	Scopulariopsis/Microascus	-	-	-	Acceptable
	Stachybotrys/Memnoniella	-	-	-	Acceptable
Comments	Unidentifiable Spores	-	-	-	Acceptable
	Arthrimum	-	-	-	Acceptable
	Peronospora++	-	-	-	Acceptable
	Polythrincium	-	-	-	Acceptable
	Pyricularia	-	-	-	Acceptable
	Total Fungi	23	970	100	Acceptable
	Hyphal Fragment	-	-	-	Acceptable
	Insect Fragment	-	-	-	Acceptable
	Pollen	-	-	-	Acceptable

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

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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312821-0003	Alternaria (Ulocladium)	-	-	-	Acceptable
	Ascospores	8	400	7.7	Acceptable
Client Sample ID	Aspergillus/Penicillium	-	-	-	Acceptable
L-8-16-03	Basidiospores	108	4770	92.1	Acceptable
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
Location	Cladosporium	-	-	-	Acceptable
Hall o/s B15	Curvularia	-	-	-	Acceptable
	Epicoccum	-	-	-	Acceptable
Sample Volume (L)	Fusarium++	-	-	-	Acceptable
	Ganoderma	-	-	-	Acceptable
75	Myxomycetes++	1*	10*	0.2	Acceptable
	Pithomyces++	-	-	-	Acceptable
Sample Type	Rust	-	-	-	Acceptable
Inside	Scopulariopsis/Microascus	-	-	-	Acceptable
	Stachybotrys/Memnoniella	-	-	-	Acceptable
Comments	Unidentifiable Spores	-	-	-	Acceptable
	Arthrimum	-	-	-	Acceptable
	Peronospora++	-	-	-	Acceptable
	Polythrincium	-	-	-	Acceptable
	Pyricularia	-	-	-	Acceptable
	Total Fungi	117	5180	100	Acceptable
	Hyphal Fragment	-	-	-	Acceptable
	Insect Fragment	-	-	-	Acceptable
	Pollen	-	-	-	Acceptable

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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312821-0004	Alternaria (Ulocladium)	1*	10*	1.7	Acceptable   
	Ascospores	2	90	15.3	Acceptable 
Client Sample ID	Aspergillus/Penicillium	1	40	6.8	Acceptable 
L-8-16-04	Basidiospores	9	400	67.8	Acceptable  
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
Location	Cladosporium	-	-	-	Acceptable
Library	Curvularia	-	-	-	Acceptable
	Epicoccum	1	40	6.8	Acceptable  
Sample Volume (L)	Fusarium++	-	-	-	Acceptable
	Ganoderma	-	-	-	Acceptable
75	Myxomycetes++	-	-	-	Acceptable
	Pithomyces++	-	-	-	Acceptable
Sample Type	Rust	1*	10*	1.7	Acceptable  
	Scopulariopsis/Microascus	-	-	-	Acceptable
Inside	Stachybotrys/Memnoniella	-	-	-	Acceptable
Comments	Unidentifiable Spores	-	-	-	Acceptable
	Arthrimum	-	-	-	Acceptable
	Peronospora++	-	-	-	Acceptable
	Polythrincium	-	-	-	Acceptable
	Pyricularia	-	-	-	Acceptable
	Total Fungi	15	590	100	Acceptable
	Hyphal Fragment	-	-	-	Acceptable
	Insect Fragment	-	-	-	Acceptable
	Pollen	-	-	-	Acceptable

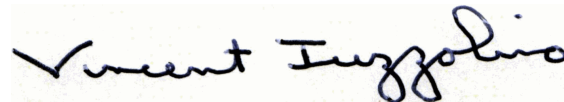
Analytical Sensitivity 600x: **44** counts/cubic meter
Analytical Sensitivity 300x *: **13*** counts/cubic meter

Skin Fragments: **2** 1 to 4 (low to high)
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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312821-0005	Alternaria (Ulocladium)	-	-	-	
	Ascospores	43	1900	3.8	
Client Sample ID	Aspergillus/Penicillium	-	-	-	
EXT-8-16-01	Basidiospores	1060	46800	93.5	
	Bipolaris++	-	-	-	
	Chaetomium++	-	-	-	
Location	Cladosporium	26	1100	2.2	
McCall	Curvularia	-	-	-	
	Epicoccum	-	-	-	
Sample Volume (L)	Fusarium++	-	-	-	
	Ganoderma	4	200	0.4	
75	Myxomycetes++	-	-	-	
	Pithomyces++	1	40	0.1	
Sample Type	Rust	-	-	-	
Background	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
Comments	Unidentifiable Spores	-	-	-	
	Arthrinium	-	-	-	
	Peronospora++	-	-	-	
	Polythrincium	-	-	-	
	Pyricularia	-	-	-	
	Total Fungi	1134	50040	100	
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

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


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Particle Identification		Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312821-0006	Alternaria (Ulocladium)	-	-	-	
	Ascospores	71	3100	6.9	
Client Sample ID	Aspergillus/Penicillium	-	-	-	
EXT-8-16-02	Basidiospores	913	40300	89.3	 
	Bipolaris++	2	90	0.2	  
	Chaetomium++	-	-	-	
Location	Cladosporium	23	1000	2.2	
Lyter	Curvularia	1*	10*	0	 
	Epicoccum	1	40	0.1	 
Sample Volume (L)	Fusarium++	-	-	-	
	Ganoderma	4	200	0.4	 
75	Myxomycetes++	-	-	-	
	Pithomyces++	-	-	-	
Sample Type	Rust	1	40	0.1	 
Background	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
Comments	Unidentifiable Spores	2	90	0.2	
	Arthrinium	2*	30*	0.1	 
	Peronospora++	1	40	0.1	
	Polythrincium	4	200	0.4	
	Pyricularia	1*	10*	0	
	Total Fungi	1026	45150	100	
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	
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: 1		1 to 4 (low to high)	
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Vincent Tuzzolino

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372312821-0007	Alternaria (Ulocladium)	1	40	0.2		☀️	☣️💧
	Ascospores	55	2400	10.1		☀️	
	Aspergillus/Penicillium	2	90	0.4		☀️	
Client Sample ID	Basidiospores	462	20400	85.8	🌲	☀️	
EXT-8-16-03	Bipolaris++	-	-	-			
	Chaetomium++	-	-	-			
Location	Cladosporium	13	570	2.4			☀️
High School	Curvularia	1	40	0.2	🌲	☀️	
	Epicoccum	-	-	-			
Sample Volume (L)	Fusarium++	-	-	-			
	Ganoderma	4	200	0.8	🌲	☀️	
75	Myxomycetes++	1*	10*	0	🌲	☀️	
	Pithomyces++	-	-	-			
Sample Type	Rust	-	-	-			
Background	Scopulariopsis/Microascus	-	-	-			
	Stachybotrys/Memnoniella	-	-	-			
Comments	Unidentifiable Spores	-	-	-			
	Arthrinium	-	-	-			
	Peronospora++	-	-	-			
	Polythrincium	1	40	0.2	🌲		
	Pyricularia	-	-	-			
	Total Fungi	540	23790	100			
	Hyphal Fragment	-	-	-			
	Insect Fragment	-	-	-			
	Pollen	-	-	-			
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: 1		1 to 4 (low to high)			
		Background: 1		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.

Bipolaris++ = Bipolaris / Drechslera / Exserohilum
 Myxomycetes++ = Myxomycetes / Smut /

Vincent Tuzzolino

Initial report from: 08/21/2023 15:15:27

Vincent Iuzzolino, M.S., Laboratory Director
or Other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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