



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: 372312822
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 / High School

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

	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312822-0001	Alternaria (Ulocladium)	-	-	-	Acceptable
	Ascospores	5	200	3	Acceptable
Client Sample ID	Aspergillus/Penicillium	-	-	-	Acceptable
HS-8-16-01	Basidiospores	138	6100	91	Acceptable
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
Location	Cladosporium	9	400	6	Acceptable
Cafe	Curvularia	-	-	-	Acceptable
	Epicoccum	-	-	-	Acceptable
Sample Volume (L)	Fusarium++	-	-	-	Acceptable
	Ganoderma	-	-	-	Acceptable
75	Myxomycetes++	-	-	-	Acceptable
	Pithomyces++	-	-	-	Acceptable
Sample Type	Rust	-	-	-	Acceptable
Inside	Scopulariopsis/Microascus	-	-	-	Acceptable
	Stachybotrys/Memnoniella	-	-	-	Acceptable
Comments	Unidentifiable Spores	-	-	-	Acceptable
	Arthrinium	-	-	-	Acceptable
	Peronospora++	-	-	-	Acceptable
	Polythrincium	-	-	-	Acceptable
	Pyricularia	-	-	-	Acceptable
	Total Fungi	152	6700	100	Acceptable
	Hyphal Fragment	1	40	-	Slightly Elevated
	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: **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.
 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 /

Report amended: 08/21/2023 15:19:15 Replaces initial report from:08/18/2023
16:14:05 Reason Code: Client-Change to Project

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

	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312822-0002	Alternaria (Ulocladium)	-	-	-	Acceptable
	Ascospores	4	200	3.1	Acceptable
Client Sample ID	Aspergillus/Penicillium	-	-	-	Acceptable
HS-8-16-02	Basidiospores	142	6280	96.3	Acceptable
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
Location	Cladosporium	1	40	0.6	Acceptable
Library	Curvularia	-	-	-	Acceptable
	Epicoccum	-	-	-	Acceptable
Sample Volume (L)	Fusarium++	-	-	-	Acceptable
	Ganoderma	-	-	-	Acceptable
75	Myxomycetes++	-	-	-	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	147	6520	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

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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312822-0003	Alternaria (Ulocladium)	-	-	-	Acceptable
	Ascospores	4	200	3.3	Acceptable
Client Sample ID	Aspergillus/Penicillium	-	-	-	Acceptable
HS-8-16-03	Basidiospores	130	5750	95.2	Acceptable
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
Location	Cladosporium	-	-	-	Acceptable
Rm 310	Curvularia	-	-	-	Acceptable
	Epicoccum	-	-	-	Acceptable
Sample Volume (L)	Fusarium++	-	-	-	Acceptable
	Ganoderma	2	90	1.5	Acceptable
75	Myxomycetes++	-	-	-	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	136	6040	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)

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Slightly Elevated Concentration above background
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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312822-0004	Alternaria (Ulocladium)	1*	10*	0.1	Acceptable   
	Ascospores	17	750	7.9	Acceptable 
Client Sample ID	Aspergillus/Penicillium	-	-	-	Acceptable
HS-8-16-04	Basidiospores	189	8350	87.9	Acceptable  
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
Location	Cladosporium	7	300	3.2	Acceptable 
2nd Floor Hall at Break Area	Curvularia	-	-	-	Acceptable
	Epicoccum	-	-	-	Acceptable
Sample Volume (L)	Fusarium++	-	-	-	Acceptable
	Ganoderma	2	90	0.9	Acceptable  
75	Myxomycetes++	-	-	-	Acceptable
	Pithomyces++	-	-	-	Acceptable
Sample Type	Rust	-	-	-	Acceptable
	Scopulariopsis/Microascus	-	-	-	Acceptable
Inside	Stachybotrys/Memnoniella	-	-	-	Acceptable
Comments	Unidentifiable Spores	-	-	-	Acceptable
	Arthrimum	-	-	-	Acceptable
	Peronospora++	-	-	-	Acceptable
	Polythrincium	-	-	-	Acceptable
	Pyricularia	-	-	-	Acceptable
	Total Fungi	216	9500	100	Acceptable
	Hyphal Fragment	-	-	-	Acceptable
	Insect Fragment	-	-	-	Acceptable
	Pollen	-	-	-	Acceptable

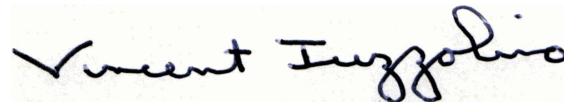
Analytical Sensitivity 600x: **44** counts/cubic meter
 Analytical Sensitivity 300x *: **13*** counts/cubic meter

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)

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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312822-0005	Alternaria (Ulocladium)	-	-	-	Acceptable
	Ascospores	12	530	13.4	Acceptable
Client Sample ID	Aspergillus/Penicillium	-	-	-	Acceptable
HS-8-16-05	Basidiospores	73	3200	80.6	Acceptable
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
Location	Cladosporium	4	200	5	Acceptable
Hall o/s Rm 223	Curvularia	-	-	-	Acceptable
	Epicoccum	-	-	-	Acceptable
Sample Volume (L)	Fusarium++	-	-	-	Acceptable
	Ganoderma	1	40	1	Acceptable
75	Myxomycetes++	-	-	-	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	90	3970	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)
 Fibrous Particulate: **1** 1 to 4 (low to high)
 Background: **2** 1 to 4 (low to high) 5 (overloaded)

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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312822-0006	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	-	-	-	
	Scopulariopsis/Microascus	-	-	-	
Background	Stachybotrys/Memnoniella	-	-	-	
Comments	Unidentifiable Spores	-	-	-	
	Arthrimum	-	-	-	
	Peronospora++	-	-	-	
	Polythrincium	-	-	-	
	Pyricularia	-	-	-	
	Total Fungi	1134	50040	100	
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

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 Fibrous Particulate: **1** 1 to 4 (low to high)
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372312822-0007	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 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)					

- 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 /

Report amended: 08/21/2023 15:19:15 Replaces initial report from:08/18/2023
 16:14:05 Reason Code: Client-Change to Project

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



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: 372312822
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 / High School

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

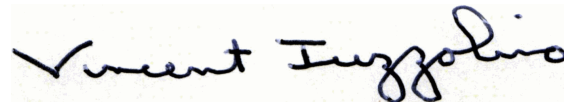
	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312822-0008	Alternaria (Ulocladium)	1	40	0.2	  
	Ascospores	55	2400	10.1	
Client Sample ID EXT-8-16-03	Aspergillus/Penicillium	2	90	0.4	 
	Basidiospores	462	20400	85.8	
	Bipolaris++	-	-	-	 
	Chaetomium++	-	-	-	
Location High School	Cladosporium	13	570	2.4	 
	Curvularia	1	40	0.2	
	Epicoccum	-	-	-	 
Sample Volume (L)	Fusarium++	-	-	-	
	Ganoderma	4	200	0.8	 
75	Myxomycetes++	1*	10*	0	
	Pithomyces++	-	-	-	 
Sample Type	Rust	-	-	-	
	Scopulariopsis/Microascus	-	-	-	 
Background	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
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)

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