



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: 372312812
 Customer ID: SPOT50
 Customer PO:
 Project ID:

Attn: Dave Kuchinski
 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: 08/20/2023

Proj: 109944.0017/ Loyalsock Valley 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
372312812-0001	Alternaria (Ulocladium)	-	-	-	
	Ascospores	57	2500	1.7	
Client Sample ID	Aspergillus/Penicillium	10	440	0.3	
LV-8-16-01	Basidiospores	3190	141000	97	
	Bipolaris++	-	-	-	
	Chaetomium++	-	-	-	
Location	Cladosporium	8	400	0.3	
Exterior Front	Curvularia	-	-	-	
	Epicoccum	-	-	-	
Sample Volume (L)	Fusarium++	-	-	-	
	Ganoderma	9	400	0.3	
75	Myxomycetes++	3	100	0.1	
	Pithomyces++	-	-	-	
Sample Type	Rust	-	-	-	
Background	Stachybotrys/Memnoniella	-	-	-	
	Unidentifiable Spores	8	400	0.3	
Comments	Blakeslea/Choanephora	-	-	-	
	Coelomycetes	1	40	0	
	Nigrospora	2*	30*	0	
	Polythrincium	1	40	0	
	Pyricularia	-	-	-	
	Total Fungi	3289	145350	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 /

Initial report from: 08/21/2023 08:23:09

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
372312812-0002	Alternaria (Ulocladium)	-	-	-	
	Ascospores	50	2200	1.1	
Client Sample ID	Aspergillus/Penicillium	2	90	0	
LV-8-16-02	Basidiospores	4350	192000	98.1	
	Bipolaris++	-	-	-	
	Chaetomium++	-	-	-	
Location	Cladosporium	4	200	0.1	
Exterior Back	Curvularia	-	-	-	
	Epicoccum	2*	30*	0	
Sample Volume (L)	Fusarium++	-	-	-	
	Ganoderma	8	400	0.2	
75	Myxomycetes++	-	-	-	
	Pithomyces++	1*	10*	0	
Sample Type	Rust	-	-	-	
Background	Stachybotrys/Memnoniella	-	-	-	
	Unidentifiable Spores	15	660	0.3	
Comments	Blakeslea/Choanephora	-	-	-	
	Coelomycetes	-	-	-	
	Nigrospora	-	-	-	
	Polythrincium	-	-	-	
	Pyricularia	1	40	0	
	Total Fungi	4433	195630	100	
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312812-0003	Alternaria (Ulocladium)	-	-	-	Acceptable
	Ascospores	14	620	1.1	Acceptable
Client Sample ID	Aspergillus/Penicillium	1	40	0.1	Acceptable
LV-8-16-03	Basidiospores	1250	55200	97.5	Acceptable
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
Location	Cladosporium	12	530	0.9	Slightly Elevated
Cafe	Curvularia	-	-	-	Acceptable
	Epicoccum	-	-	-	Acceptable
Sample Volume (L)	Fusarium++	-	-	-	Acceptable
	Ganoderma	3	100	0.2	Acceptable
75	Myxomycetes++	-	-	-	Acceptable
	Pithomyces++	1	40	0.1	Slightly Elevated
Sample Type	Rust	1	40	0.1	Slightly Elevated
Inside	Stachybotrys/Memnoniella	-	-	-	Acceptable
	Unidentifiable Spores	-	-	-	Acceptable
Comments	Blakeslea/Choanephora	-	-	-	Acceptable
	Coelomycetes	1	40	0.1	Acceptable
	Nigrospora	-	-	-	Acceptable
	Polythrincium	-	-	-	Acceptable
	Pyricularia	-	-	-	Acceptable
	Total Fungi	1283	56610	100	Acceptable
	Hyphal Fragment	-	-	-	Acceptable
	Insect Fragment	-	-	-	Acceptable
	Pollen	-	-	-	Acceptable

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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
372312812-0004	Alternaria (Ulocladium)	1	40	0.1	Slightly Elevated   
	Ascospores	7	300	0.6	Acceptable 
Client Sample ID	Aspergillus/Penicillium	3	100	0.2	Acceptable 
LV-8-16-04	Basidiospores	1030	45500	98.2	Acceptable  
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
Location	Cladosporium	1	40	0.1	Acceptable 
A4	Curvularia	-	-	-	Acceptable
	Epicoccum	-	-	-	Acceptable
Sample Volume (L)	Fusarium++	-	-	-	Acceptable
	Ganoderma	1	40	0.1	Acceptable  
75	Myxomycetes++	3	100	0.2	Acceptable  
	Pithomyces++	1*	10*	0	Acceptable  
Sample Type	Rust	2	90	0.2	Slightly Elevated  
	Stachybotrys/Memnoniella	-	-	-	Acceptable
Inside	Unidentifiable Spores	2	90	0.2	Acceptable
Comments	Blakeslea/Choanephora	-	-	-	Acceptable
	Coelomycetes	1	40	0.1	Acceptable
	Nigrospora	-	-	-	Acceptable
	Polythrincium	-	-	-	Acceptable
	Pyricularia	-	-	-	Acceptable
	Total Fungi	1052	46350	100	Acceptable
	Hyphal Fragment	-	-	-	Acceptable
	Insect Fragment	-	-	-	Acceptable
	Pollen	-	-	-	Acceptable

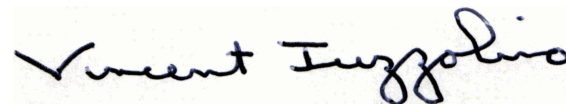
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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312812-0005	Alternaria (Ulocladium)	-	-	-	Acceptable
	Ascospores	8	400	1.7	Acceptable
Client Sample ID	Aspergillus/Penicillium	8	400	1.7	Acceptable
LV-8-16-05	Basidiospores	510	22500	96	Acceptable
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
Location	Cladosporium	2	90	0.4	Acceptable
Hall o/s A1	Curvularia	-	-	-	Acceptable
	Epicoccum	-	-	-	Acceptable
Sample Volume (L)	Fusarium++	-	-	-	Acceptable
	Ganoderma	-	-	-	Acceptable
75	Myxomycetes++	-	-	-	Acceptable
	Pithomyces++	-	-	-	Acceptable
Sample Type	Rust	-	-	-	Acceptable
Inside	Stachybotrys/Memnoniella	-	-	-	Acceptable
	Unidentifiable Spores	1	40	0.2	Acceptable
Comments	Blakeslea/Choanephora	-	-	-	Acceptable
	Coelomycetes	-	-	-	Acceptable
	Nigrospora	-	-	-	Acceptable
	Polythrincium	-	-	-	Acceptable
	Pyricularia	-	-	-	Acceptable
	Total Fungi	529	23430	100	Acceptable
	Hyphal Fragment	-	-	-	Acceptable
	Insect Fragment	-	-	-	Acceptable
	Pollen	-	-	-	Acceptable

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372312812-0006	Alternaria (Ulocladium)	-	-	-	Acceptable
	Ascospores	3	100	0.3	Acceptable
Client Sample ID	Aspergillus/Penicillium	-	-	-	Acceptable
LV-8-16-06	Basidiospores	770	34000	98.8	Acceptable
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
Location	Cladosporium	3	100	0.3	Acceptable
Hall o/s Faculty	Curvularia	-	-	-	Acceptable
	Epicoccum	-	-	-	Acceptable
Sample Volume (L)	Fusarium++	-	-	-	Acceptable
	Ganoderma	1	40	0.1	Acceptable
75	Myxomycetes++	2	90	0.3	Acceptable
	Pithomyces++	-	-	-	Acceptable
Sample Type	Rust	-	-	-	Acceptable
	Stachybotrys/Memnoniella	-	-	-	Acceptable
Inside	Unidentifiable Spores	2	90	0.3	Acceptable
Comments	Blakeslea/Choanephora	-	-	-	Acceptable
	Coelomycetes	-	-	-	Acceptable
	Nigrospora	-	-	-	Acceptable
	Polythrincium	-	-	-	Acceptable
	Pyricularia	-	-	-	Acceptable
	Total Fungi	781	34420	100	Acceptable
	Hyphal Fragment	-	-	-	Acceptable
	Insect Fragment	-	-	-	Acceptable
	Pollen	1	40	-	Slightly Elevated

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	Ascospores	3	100	0.7	Acceptable
Client Sample ID	Aspergillus/Penicillium	2	90	0.6	Acceptable
LV-8-16-07	Basidiospores	319	14100	97.8	Acceptable
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
Location	Cladosporium	1	40	0.3	Acceptable
B4	Curvularia	-	-	-	Acceptable
	Epicoccum	1	40	0.3	Slightly Elevated
Sample Volume (L)	Fusarium++	-	-	-	Acceptable
	Ganoderma	-	-	-	Acceptable
75	Myxomycetes++	-	-	-	Acceptable
	Pithomyces++	2*	30*	0.2	Slightly Elevated
Sample Type	Rust	-	-	-	Acceptable
Inside	Stachybotrys/Memnoniella	-	-	-	Acceptable
	Unidentifiable Spores	-	-	-	Acceptable
Comments	Blakeslea/Choanephora	-	-	-	Acceptable
	Coelomycetes	-	-	-	Acceptable
	Nigrospora	-	-	-	Acceptable
	Polythrincium	1*	10*	0.1	Acceptable
	Pyricularia	-	-	-	Acceptable
	Total Fungi	329	14410	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: **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 08:23:09

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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Order ID: 372312812
Customer ID: SPOT50
Customer PO:
Project ID:

Attn: Dave Kuchinski
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: 08/20/2023

Proj: 109944.0017/ Loyalsock Valley Elem. 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
372312812-0008	Alternaria (Ulocladium)	-	-	-	Acceptable
	Ascospores	1	40	0.1	Acceptable
Client Sample ID	Aspergillus/Penicillium	2	90	0.3	Acceptable
LV-8-16-08	Basidiospores	611	27000	98.5	Acceptable
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
Location	Cladosporium	-	-	-	Acceptable
Hall o/s B4	Curvularia	1*	10*	0	Slightly Elevated
	Epicoccum	1*	10*	0	Acceptable
Sample Volume (L)	Fusarium++	-	-	-	Acceptable
	Ganoderma	1	40	0.1	Acceptable
75	Myxomycetes++	1	40	0.1	Acceptable
	Pithomyces++	-	-	-	Acceptable
Sample Type	Rust	-	-	-	Acceptable
	Stachybotrys/Memnoniella	-	-	-	Acceptable
Inside	Unidentifiable Spores	1	40	0.1	Acceptable
Comments	Blakeslea/Choanephora	2	90	0.3	Slightly Elevated
	Coelomycetes	1	40	0.1	Acceptable
	Nigrospora	-	-	-	Acceptable
	Polythrincium	-	-	-	Acceptable
	Pyricularia	-	-	-	Acceptable
	Total Fungi	622	27400	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)
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