



# EMSL Analytical, Inc.

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**EMSL Order:** 372313588  
**Customer ID:** MDGL77  
**Customer PO:**  
**Project ID:**

**Attention:** Chris Macri  
MDG Environmental, LLC  
1000 Maplewood Drive  
Suite 207  
Maple Shade, NJ 08052  
**Project:** 23-227-2/ 4528 White Horse Pike, Elwood, NJ Mullica Twp NJ

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**Collected Date:** 08/29/2023  
**Received Date:** 08/29/2023 05:25 PM  
**Analyzed Date:** 08/30/2023

### Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	372313588-0001 AOC-01 75 Outdoors			372313588-0002 AOC-02 75 Court Room 1st Floor			372313588-0003 AOC-03 75 Waiting Area Bsmt			
	Spore Types	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-	-
Ascospores	13	570	48.7	-	-	-	-	-	-	-
Aspergillus/Penicillium	3	100	8.5	-	-	-	1	40	5.1	-
Basidiospores	4	200	17.1	1	40	22.2	3	100	12.8	-
Bipolaris++	-	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	1	40	5.1	-
Cladosporium	6	300	25.6	2	90	50	1	40	5.1	-
Curvularia	-	-	-	-	-	-	1	40	5.1	-
Epicoccum	-	-	-	1*	10*	5.6	1	40	5.1	-
Fusarium++	-	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	1	40	5.1	-
Pithomyces++	-	-	-	1	40	22.2	3	100	12.8	-
Rust	-	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	6	300	38.5	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-	-
Arthrinium	-	-	-	-	-	-	1	40	5.1	-
Bispora	-	-	-	-	-	-	-	-	-	-
<b>Total Fungi</b>	<b>26</b>	<b>1170</b>	<b>100</b>	<b>5</b>	<b>180</b>	<b>100</b>	<b>19</b>	<b>780</b>	<b>100</b>	<b>100</b>
Hyphal Fragment	-	-	-	1	40	-	2	90	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	1*	10*	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	2	-	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	-
Background (1-5)	-	1	-	-	2	-	-	2	-	-

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

Vincent Iuzzolino, M.S., Laboratory Manager  
or other Approved Signatory

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

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 report.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA LAP, LLC-EMLAP Accredited #100194

Initial report from: 08/30/2023 04:05 PM

For information on the fungi listed in this report, please visit the Resources section at [www.emsl.com](http://www.emsl.com)



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### Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	372313588-0004 AOC-04 75 Hallway			372313588-0005 AOC-05 75 Squadroom			372313588-0006 AOC-06 75 Detective's Office			
	Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	2	90	18	-	-	-	-
Aspergillus/Penicillium	1	40	15.4	1	40	8	1	40	9.8	-
Basidiospores	-	-	-	-	-	-	2	90	22	-
Bipolaris++	-	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	2	90	18	-	-	-	-
Cladosporium	1	40	15.4	-	-	-	1	40	9.8	-
Curvularia	1	40	15.4	-	-	-	-	-	-	-
Epicoccum	-	-	-	2	90	18	1	40	9.8	-
Fusarium++	-	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-	-
Pithomyces++	1	40	15.4	2	90	18	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	3	100	38.5	3	100	20	4	200	48.8	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-	-
Arthrinium	-	-	-	-	-	-	-	-	-	-
Bispora	-	-	-	-	-	-	-	-	-	-
<b>Total Fungi</b>	<b>7</b>	<b>260</b>	<b>100</b>	<b>12</b>	<b>500</b>	<b>100</b>	<b>9</b>	<b>410</b>	<b>100</b>	
Hyphal Fragment	-	-	-	-	-	-	1	40	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	1*	10*	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	-
Skin Fragments (1-4)	-	2	-	-	2	-	-	2	-	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	-
Background (1-5)	-	1	-	-	2	-	-	2	-	-

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

Vincent Iuzzolino, M.S., Laboratory Manager  
or other Approved Signatory

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

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 report.

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Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	372313588-0007 AOC-07 75 Matron/Records Office			372313588-0008 AOC-08 75 Back Stairwall						
	Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total			
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-	-
Ascospores	1	40	0.1	4	200	20.4	-	-	-	-
Aspergillus/Penicillium	1710	74600	99.2	-	-	-	-	-	-	-
Basidiospores	1	40	0.1	8	300	30.6	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-	-
Chaetomium++	2	90	0.1	-	-	-	-	-	-	-
Cladosporium	1	40	0.1	3	100	10.2	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-	-
Epicoccum	2	90	0.1	1	40	4.1	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	2	90	9.2	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-	-
Pithomyces++	2	90	0.1	1*	10*	1	-	-	-	-
Rust	-	-	-	1	40	4.1	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	3	100	0.1	4	200	20.4	-	-	-	-
Unidentifiable Spores	1	40	0.1	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-	-
Arthrinium	-	-	-	-	-	-	-	-	-	-
Bispora	1	40	0.1	-	-	-	-	-	-	-
<b>Total Fungi</b>	<b>1724</b>	<b>75170</b>	<b>100</b>	<b>24</b>	<b>980</b>	<b>100</b>	-	-	-	-
Hyphal Fragment	3	100	-	1	40	-	-	-	-	-
Insect Fragment	4	200	-	-	-	-	-	-	-	-
Pollen	1	40	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	-	-	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	-	-	-
Skin Fragments (1-4)	-	2	-	-	2	-	-	-	-	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	-	-	-
Background (1-5)	-	4	-	-	2	-	-	-	-	-

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

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