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EMSL Analytical, Inc.

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 http://www.EMSL.com / cinnmicrolab@emsl.com

EMSL Order: 371920047
Customer ID: CAMD57
Customer PO: 208267
Project ID:

Attn: Chris Costa
 Camden County Dept of Public Safety
 Charles J. DePalma Complex
 2311 Egg Harbor Road
 Lindenwold, NJ 08021
Project: Berlin Community School

Phone: (856) 374-6369
Fax: (856) 374-6210
Collected: 09/09/2019
Received: 09/09/2019
Analyzed: 09/09/2019

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

Lab Sample Number:	371920047-0001			371920047-0002			371920047-0003		
	Client Sample ID:	Volume (L):	Sample Location	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
	1	75	Outside	2	75	Room 2	3	75	Room 14
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	3	100	1.4	-	-	-	-	-	-
Ascospores	10	440	6.2	-	-	-	-	-	-
Aspergillus/Penicillium	6	300	4.2	85	3800	78	2	90	14.5
Basidiospores	105	4640	65.4	5	200	4.1	8	400	64.5
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	30	1300	18.3	4	200	4.1	2	90	14.5
Curvularia	1	40	0.6	1*	10*	0.2	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	3	100	1.4	-	-	-	-	-	-
Myxomycetes++	2	90	1.3	2	90	1.8	1	40	6.5
Pithomyces++	-	-	-	1	40	0.8	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Arthrospores	-	-	-	10	440	9	-	-	-
Cercospora++	1	40	0.6	-	-	-	-	-	-
Chromelosporium++	-	-	-	2	90	1.8	-	-	-
Peronospora	1	40	0.6	-	-	-	-	-	-
Total Fungi	162	7090	100	110	4870	100	13	620	100
Hyphal Fragment	-	-	-	1	40	-	1	40	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	3	100	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

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

Vincent Iuzzolino

Vincent Iuzzolino, M.S., Laboratory Manager
 or other approved signatory

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

Samples received in good condition unless otherwise noted. High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. 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. 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. Interpretation and use of test results are the responsibility of the client. 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 Lab 100194

Initial report from: 09/09/2019 12:53:17

For information on the fungi listed in this report, please visit the Resources section at 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:	371920047-0004			371920047-0005			371920047-0006		
Client Sample ID:	4			5			6		
Volume (L):	75			75			75		
Sample Location	Room 9			Room 29			Room 7		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	1	40	4.4	2	90	1.7
Aspergillus/Penicillium	7	300	25	10	440	48.4	27	1200	22.6
Basidiospores	8	400	33.3	6	300	33	74	3300	62.3
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	6	300	25	2	90	9.9	12	530	10
Curvularia	1	40	3.3	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	1	40	3.3	-	-	-	1	40	0.8
Myxomycetes++	1	40	3.3	1	40	4.4	2	90	1.7
Pilthomyces++	2*	30*	2.5	-	-	-	1	40	0.8
Rust	1*	10*	0.8	-	-	-	1*	10*	0.2
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Arthrospores	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	-	-	-
Chromelosporium++	1	40	3.3	-	-	-	-	-	-
Peronospora	-	-	-	-	-	-	-	-	-
Total Fungi	28	1200	100	20	910	100	120	5300	100
Hyphal Fragment	2	90	-	1*	10*	-	3	100	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	3	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	1	-	-	2	-

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

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