

U.S. Micro-Solutions, Inc. * 302 Unity Plaza * Latrobe, PA 15650 Phone: (724) 853-4047 Fax: (724) 853-4049 AIHA-LAP, LLC EMLAP # 103009 www.usmslab.com

Customer Name: Ohio Technical Services, Inc. Sample Date: July 13, 2022
Customer Address: 1949 Camaro Avenue Date Received: July 14, 2022
Columbus, OH 43207 Date of Report: July 19, 2022

Customer Phone: (614) 372-0829 Fax: (614) 372-0933
PO Number: Attention: Shawna Stinnett

Project Name/Number: 23-4004

Customer sample			Trap Analysis		tinea i		Air-O-Cell	itory #		77018	D-22	
	Allborne	Spore	Analytical M		-	MIC 01						
Total Volume (L)			75				75				75	
Sample Number			1				2				3	
Location:			Kitchen			,	Master			В	edroom 1	
Particle ID	Raw ct.	AS	Spores/m³	%	Raw ct.	AS	Spores/m³	%	Raw ct.	AS	Spores/m³	%
Alternaria-like									1	13	13	0%
Ascospores					1	13	13	8%	4	13	52	1%
Aspergillus/Penicillium-like					5	13	65	42%	340	13	4,420	96%
Basidiospores	4	13	52	100%	5	13	65	42%	5	13	65	1%
Bipolaris/Drechslera												
Cercospora												
Chaetomium-like												
Cladosporium					1	13	13	8%	2	13	26	1%
Curvularia												
Epicoccum									1	13	13	0%
Helicomyces												0,0
Nigrospora												
Oidium												
Pithomyces												
Polythrincium									1	13	13	0%
Rusts									'	13	13	0 78
									1	10	43	00/
Smuts/ Myxomycetes									1	13	13	0%
Stachybotrys												
Torula Trichoderma-like												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m³ of air)	4		52		12		156		355		4,615	
(Oporesim of any	1 4		32		12		136		333		4,015	
Pollen	0	13	< 13		0	13	< 13		0	13	< 13	
Hyphal Fragments												
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			1		1					1		
Debris			1				2				2	
Analyst Initials			LS				LS				LS	
Date Analyzed			07/15/22				07/15/22				07/15/22	
Exp Date of Cassette:			10/2022				10/2022				10/2022	

Entire trace analyzed. Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The Aspergillus/PenicIlium-like category cannot be differentiated by non-viable sampling methods. Results are not blank corrected.

Blank Lines = None Detected

When providing duplicates of this report, the document should be provided in total and not in section in accordance with AIHA-LAP, LLC. Any unauthorized or improper
disclosure, copying, distribution, use, or falsification of these results is prohibited. USMS shall have no liability to the Customer or the Customer's customer for opinions stated,
recommendations made, actions taken, or conduct implemented based on the test results reported.

Technical Manager: Deanna & Kiska

Deanna L. Kiska, Ph.D.



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Customer sample			w are unique Trap Analysis		tified i		Air-O-Cell	itory #		77018)-ZZ	
	All bollie	Spore	Analytical M		_	MIC 01						
Total Volume (L)			75		1							
Sample Number			4									
Location:		0.	delde Beer									
Location:	Raw		ıtside Base	1	Raw				Raw			
Particle ID	ct.	AS	Spores/m³	%	ct.	AS	Spores/m ³	%	ct.	AS	Spores/m ³	%
Alternaria-like												
Ascospores	4	13	52	5%								
Aspergillus/Penicillium-like												
Basidiospores	36	13	468	49%								
Bipolaris/Drechslera												
Cercospora												
Chaetomium-like												
Cladosporium	31	13	403	42%								
Curvularia	<u> </u>			1270								
Epicoccum	1	13	13	1%								1
Helicomyces	'	10	13	170								
Nigrospora												
Oidium												
Pithomyces												
·												
Polythrincium												_
Rusts												_
Smuts/ Myxomycetes												_
Stachybotrys												\vdash
Torula Trichoderma-like	1	13	13	1%								
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												+
Total Mold (Spores/m³ of air)	73		949									
(opores/iii or aii)	13		949		l							
Pollen	0	13	< 13									
Hyphal Fragments												
Insect Fragments												
Plant Fragments												
Skin Cell Fragments			1									
Debris			1									
Analyst Initials			LS									
Date Analyzed			07/15/22									
Exp Date of Cassette:			10/2022									

Entire trace analyzed. Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The Aspergillus/PenicIlium-like category cannot be differentiated by non-viable sampling methods. Results are not blank corrected.

Blank Lines = None Detected

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Technical Manager: Deanna L Kiska, Ph.D.

SPORE TRAP INTERPRETATION TIPS

Contains opinions and interpretations

Currently there are no numeric standards for indoor airborne or surface microbial contamination. Suggested guidelines are constantly being reviewed and updated as more information is collected.

Some common denominators should be considered when interpreting results:

- 1. Comparison of indoor/outdoor concentration ratios.
- 2. Complaint vs. non-complaint areas or affected vs. non-affected areas.
- 3. Consider air exchange rates and activity levels in a building structure, weather, and season of the year.
- ${\it 4. Rank order assessment and concentration (e.g., spores/m^3 of air) of the fungi.}\\$
- 5. Predominant fungal genera: Are there water indicator microorganisms present, such as but not limited to: Chaetomium, Stachybotrys, Trichoderma, and Scopulariopsis.
- 6. Generally fungal counts indoors should be lower than outdoor counts and the types of fungi found indoors should be similar to outdoors
- 7. There is always a potential bias from infiltration of outdoor air, poor housekeeping, excessive indoor relative humidity, or potential contamination sources (e.g. water intrusion through a basement wall) that may negatively influence post remedial verification (PRV) or clearance levels.
- 8. The investigator should look for various patterns among the indoor types of molds detected:
 - a. Increased levels of primary (1st) colonizers in damp or moisture intrusion areas of homes or commercial buildings: **Aspergillus/Penicillium** or **Cladosporium** are usually noted.
 - b. *Chaetomium* or *Stachybotrys* are tertiary (3rd) colonizers of indoor materials and are usually associated with chronic long-standing water/moisture issues in a building.
 - c. The presence of **hyphal fragments** or **fruiting structures** noted on spore trap samples usually indicates amplification (growth) of fungi on building substrates.
 - d. **Ascospores** and **basidiospores** noted on indoor spore trap samples most often represent the entrance of inadequately filtered outdoor air. During inclement weather, remember to note time, temperature, and season. Most indoor materials will not support the growth of these fungi.
- 9. When unidentified **hyaline** (clear) or **dematiaceous** (dark-pigmented) conidia are noted on a spore trap sample, it indicates that no particular fungus can be identified. These fungal conidia may represent such yeast-like fungi as *Aureobasidium, Sporidiobolus*, unidentifiable *Acremonium* species, Basidiomycetes (basidiospores), and Ascomycetes (ascospores).
- 10. Keep in mind when interpreting spore trap sample reports, that indoor levels may be higher than corresponding outdoor levels (winter time in the northern U.S.) with a predominance of *Aspergillus/Penicillium* or *Cladosporium* conidia with no significant amplification of any molds.

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SPORE TRAP GUIDELINES

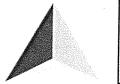
	DEBRIS RATING								
DEBRIS RATING	Debris Load per high power field (600 X)	SIGNIFICANCE							
0	A visible trace, including particulates and debris, is not observed.	Indicates the sample is a blank, the area is exceptionally clean, or improper sampling occurred.							
1	<5%	Minimal amount of debris is observed.							
2	5-25%	Low amount of debris is observed.							
3	25-75%	Moderate amount of debris is observed, the accuracy of the analysis is likely affected.							
4	75-90%	High amount of debris is observed, the accuracy of the analysis is likely affected.							
5 See Relative Abundance chart below	>90%	Periphery of trace analyzed. Relative amounts of conidia/hyphal fragments noted.							

RELATIVE ABUNDANCE of FUNGAL PARTICLES (hyphal fragments, spores)					
RATING	Fungal Particle Load per high power field (600 X)				
Rare	<5%				
Few	5-25%				
Moderate	25-75%				
Many	75-90%				
Numerous	>90%				

	SKIN CELL RATING						
SKIN CELL RATING	Skin Cell Load per high power field (600 X)						
0	No skin cells present						
1	<5%						
2	5-25%						
3	25-75%						
4	75-90%						
5	>90%						

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End of Report





U.S. Micro-Solutions, Inc. 302 Unity Plaza

302 Unity Plaza Latrobe, PA 15650 P: 724-853-4047 F: 724-853-4049 supplies@usmslab.com





LABORATORY TEST REQUEST - CHAIN OF CUSTODY

Customer Name	:Ohio T	echnical	Services,	Inc.	Phone #: (614) 37	Phone #: (614) 372-0829 FAX #: (614) 372-09				
Address: 1949	Camar	o Avenu	е		City: Columbus					
Attention To: Shawna Stinnett E-Mail: sstinnett@ohiotechserv.com							om			
								Proposa	Proposal #	
Project Name/Number: 23-4004										
Turn-Around-Time: Standard (48-72 hr) Next Day (24 hr, M-F) Same Day (6 hr, M-F) (Spore Trap & DME Only)*						l-F) 3-l	Hour (M-F)	Saturday		
Comments:						······································	-A-1	<u> </u>	<u></u> -	
Sample #		mple / Time	Sample Code	Analysis Code	Sa	mple Location & Des	cription		Sample Volume/Area	
1	7/13		ST	SPT		Kitchen			75	
2	7/13		ST	SPT	Master				75	
3	7/13		ST	SPT		Bedroom	1	- 71000.000	75	
4	7/13		ST	SPT	C	Outside Ba	ase		75	
							O THE STATE OF	7-7-7-7-1		
1,47.41.4									To all the latter to	
			200000							

Relinquished By (MUST sign) ろうとら					Da	te & Time 7 - 13	-22	
Received By - La	b Use Only	<u> </u>			Dat \(\sum_	te & Time 7/14/ <i>22</i> O]F() La	77018	3-22	
v. 11-27-18	3	11								

Sai	Sample Code						
Α	Air Plate						
В	B Bulk						
ST	Spore Trap						
S	Swab						
W	Water						
Т	Таре						
0	Other						

10	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\								
DME	Direct Microscopic Exam	COL	Colilert Presence/absence of E. coli, coliforms						
SPT	Spore Trap ☐ Allergenco-D ☐ AirOCell ☐ M5		Heterotrophic Plate Count						
FUNG	Fungal Culture – Counts w/ Identification	MYC	Mycobacteria Culture						
BACT	Bacterial Culture – Counts w/ Identification		Staphylococcus / MRSA Culture						
BACT24	Bacterial Culture (24 hr) - Counts w/ presence/absence of gram-negatives		Duodenoscope Culture						
SSQT	Sewage Screen (quant) – Counts w/ Identification E. coli, coliforms, enterococci (fecal streptococci)	нси	Heater/Cooler Water Culture includes mycobacteria, HPC, coliforms, & P. aeruginosa						
SSQL	Sewage Screen (qualitative) – Presence/absence E. coli, coliforms, enterococci (fecal streptococci)		Pseudomonas aeruginosa Culture						
SS24	Sewage Screen (24 hr) - Presence/absence E. coli, coliforms, enterococci (fecal streptococci)	IDS	Species Identification by MALDI-TOF						

^{*}All samples received after 1:00 p.m. Monday-Friday will be considered received the NEXT business day.

Same Day and Next Day samples received on Saturday will be reported on Monday and Tuesday, respectively.