

Customer Name: U.S. Micro Solutions, Inc.
Customer Address: 302 Unity Plaza
Latrobe, PA 15650
Customer Phone: (724) 853-4047
PO Number:
Project Name/Number: Direct Microscopic Exam Sample Report

Sample Date: November 30, 2022
Date Received: December 1, 2022
Date of Report: December 1, 2022
Fax:
Attention:

Customer sample numbers below are uniquely identified by prefixing Laboratory # 12345-22

Direct Microscopic Examination - Swab
Analytical Method: MIC 02

Customer Sample Number	S-1														
	Breakroom														
Sample Description/ Location	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Particle ID															
<i>Alternaria</i> -like conidia															
Ascospores															
<i>Aspergillus</i> fruiting structures															
<i>Aspergillus/Penicillium</i> -like conidia			X												
Basidiospores															
<i>Bipolaris/Drechslera</i> conidia															
<i>Chaetomium</i> -like ascospores															
<i>Cladosporium</i> conidia															
<i>Curvularia</i> conidia															
<i>Epicoccum</i> conidia															
Hyphal Fragments			X												
Insect fragments															
<i>Penicillium</i> fruiting structures															
<i>Pithomyces</i> conidia															
Plant fragments															
Pollen															
Rusts															
Smuts/ Myxomycetes															
<i>Stachybotrys</i> conidia				X											
<i>Stachybotrys</i> fruiting structures		X													
<i>Torula</i> conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia															
Skin Cell Fragments			1												
Debris			2												
No fungal conidia/hyphal fragments noted															
Analyst Initials			LS												
Date Analyzed			12/01/22												
Expiration Date of Tape/Swab:			06/30/22												

Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods. Results are not blank corrected.
Mod = Moderate; Num = Numerous

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Technical Manager: Deanna L. Kiska
Deanna L. Kiska, Ph.D.

GUIDELINES FOR DIRECT MICROSCOPIC EXAMINATION (DME) OF BULK, SWAB, AND TAPE SAMPLES

These guidelines contain opinions and interpretations and are not intended for determination of health significance nor are they necessarily representative of unacceptable indoor environments.

Molds require a food source, moisture, and spore production to proliferate, removing any one of these factors can control fungal growth. However, because of their ubiquitous nature, spores can never be completely eliminated from an area.

FUNGAL PARTICLES (hyphal fragments, spores, fruiting bodies)		
RATING¹	Fungal Particle Load per high power field (600X)	SIGNIFICANCE
Rare	<5%	Indicates a minimal amount of conidia (spores) and/or other fungal structures. Most normal indoor surfaces will show no to low fungal conidia/hyphal fragments. Generally, water indicator molds such as Stachybotrys or Chaetomium should be further investigated.
Few	5-25%	Indicates low amounts of settled conidia (spores). Typically, this amount is not consistent with active fungal growth, however, it may suggest an active source nearby, or that a surface has not been cleaned appropriately. The presence of hyphal fragments or fruiting structures may indicate a nearby source of contamination. Generally, the presence of moisture indicator molds (e.g., Stachybotrys or Chaetomium) may suggest a chronic or acute water condition from sources such as roofs, plumbing leaks, increased humidity, etc.
Moderate	25-75%	Indicates a moderate to heavy amount of fungal contamination (conidia/spores). Generally, this category is indicative of a surface that is, or has been affected, by active fungal growth. The presence of fruiting structures or hyphal fragments may support the premise that fungal growth is on-going. However, the presence of moderate to numerous conidia/spores alone does not necessarily indicate the viability of the spores. Further investigation of the affected areas may be warranted.
Many	75-90%	
Numerous	>90%	Indicates that the sample area was highly contaminated with fungal conidia/spores and/or hyphal fragments. Samples in this category display an unusually high number of conidia/spores or other fungal structures in each microscopic field.

¹This scale of relative abundance is affected by the size of the sampled area. If very large areas are sampled with a swab for example, this may cause the results to be skewed into a lower or higher category. These results correspond roughly to a sample area measuring one square inch.

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%

DEBRIS RATING		
DEBRIS RATING	Debris Load per high power field (600 X)	SIGNIFICANCE
0	No debris present	Sample may be a blank sample or from a very clean or remediated area.
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, accuracy of the analysis is likely affected.
4	75-90%	High amount of debris is observed, accuracy of the analysis is likely affected.