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AIHA EMPAT Lab ID: 178794

Mycologix Surface Condition 1/2/3 Classification

Analysis: AccuScience Premium Direct Exam (FD-02HP)
Client: RK Environmental
 Phillipsburg, NJ
Contact: McGuinness, Michael
Project ID: RK-SB

QLab Job No.: ME230810-17
Date Sampled: 8/9/2023
Date Received: 8/10/2023
Date Reported: 8/10/2023

Reviewed by: WT

Approved by: Wei-Chih Tang, Ph.D., Lab Director

Lab Sample No.	ME230810-17(1)		ME230810-17(2)		ME230810-17(3)	
Sample ID	RK-SB-01T		RK-SB-02T		RK-SB-03T	
Sample Location	Rm 105		Rm 201		Rm 202	
Sample Type (Device)	Surface (Gel.TAPE)		Surface (Gel.TAPE)		Surface (Gel.TAPE)	
Date Analyzed	8/10/2023		8/10/2023		8/10/2023	
Identification	(1) Peak Density (within 1 mm dia.)*		(1) Peak Density (within 1 mm dia.)*		(1) Peak Density (within 1 mm dia.)*	
	Spores	Hyphae/Structure	Spores	Hyphae/Structure	Spores	Hyphae/Structure
Major Hydrophilic Fungi:***						
Stachybotrys						
Chaetomium						
Ulocladium						
Acremonium						
Trichoderma						
Aureobasidium						
Yeasts (cells)						
Other Fungi:						
Aspergillus/Penicillium-like			++		+	
Aspergillus						
Penicillium						
Cladosporium	+		+++	++		
Alternaria						
Curvularia						
Epicoccum						
Myxomycetes/smuts/Periconia	+		+		+	
Nigrospora						
Pithomyces	+					
Unidentifiable w/o culturing	+		+	+	+	
Summary	(2) Overall Coverage		(2) Overall Coverage		(2) Overall Coverage	
Sample Size Examined	150 mm ²		150 mm ²		150 mm ²	
IICRC S520 Condition With Grading#	1: Normal Background		3A: Slight Growth		1: Normal Background	
Mold/Yeast Growth Observed	No		Yes		No	
Sample Mold/Yeast Coverage**	Trace: < 3%		Low: 3 - 10%		Trace: < 3%	
Sample Debris Coverage**	H : > 50%		H : > 50%		H : > 50%	
Note						

IICRC S520 Condition With Grading: 1: Normal Background, 2-A: Settled Biomass, 2-B: Residual Biomass
 3-A: Slight Growth, 3-B: Moderate Growth, 3-C: Heavy Growth

*Peak Density: Peak density of fungal biomass (spores, reproduction structures, hyphae, etc.) observed under the microscope within the viewfield of 200X magnification (approximately 1 mm in diameter).
 +, ++, +, +: Biomass covering >50%, 10-50%, 3-10%, <3% of the 200X viewfield, respectively

** Sample Coverage of Fungi/Debris: Overall coverage of fungal biomass/debris collected on the tape samples Tape/slide samples are taken from bulk/swab samples received and then analyzed under microscope.

H, M, L, T (Trace): Biomass/debris covering >50%, 10-50%, 3-10%, <3% of the entire sample, respectively

***Hydrophilic Fungi: Water-loving fungi, Min. Aw >0.89. Absence of hydrophilic fungi does not exclude the possibility of a water damage history.

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Lab Sample No.	ME230810-17(4)		ME230810-17(5)		ME230810-17(6)	
Sample ID	RK-SB-04T		RK-SB-05T		RK-SB-06T	
Sample Location	Rm 202A		Rm 203		Rm 204	
Sample Type (Device)	Surface (Gel.TAPE)		Surface (Gel.TAPE)		Surface (Gel.TAPE)	
Date Analyzed	8/10/2023		8/10/2023		8/10/2023	
Identification	(1) Peak Density (within 1 mm dia.)*		(1) Peak Density (within 1 mm dia.)*		(1) Peak Density (within 1 mm dia.)*	
	Spores	Hyphae/Structure	Spores	Hyphae/Structure	Spores	Hyphae/Structure
Major Hydrophilic Fungi:***						
Stachybotrys						
Chaetomium						
Ulocladium						
Acremonium						
Trichoderma						
Aureobasidium						
Yeasts (cells)						
Other Fungi:						
Aspergillus/Penicillium-like	+		++		+	
Aspergillus	+	+				
Penicillium						
Cladosporium			++	++	+	
Alternaria			+			
Curvularia						
Epicoccum			+			
Myxomycetes/smuts/Periconia					+	
Nigrospora						
Pithomyces			+		+	
Unidentifiable w/o culturing	+	+	+	+	+	+
Summary	(2) Overall Coverage		(2) Overall Coverage		(2) Overall Coverage	
Sample Size Examined	150 mm ²		150 mm ²		150 mm ²	
IICRC S520 Condition With Grading#	1: Normal Background		3A: Slight Growth		1: Normal Background	
Mold/Yeast Growth Observed	No		Yes		No	
Sample Mold/Yeast Coverage**	Trace: < 3%		Low: 3 - 10%		Trace: < 3%	
Sample Debris Coverage**	H : > 50%		H : > 50%		H : > 50%	
Note						

IICRC S520 Condition With Grading: 1: Normal Background, 2-A: Settled Biomass, 2-B: Residual Biomass
 3-A: Slight Growth, 3-B: Moderate Growth, 3-C: Heavy Growth

*Peak Density: Peak density of fungal biomass (spores, reproduction structures, hyphae, etc.)
 observed under the microscope within the viewfield of 200X magnification (approximately 1 mm in diameter).

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Lab Sample No.	ME230810-17(7)		ME230810-17(8)		ME230810-17(9)	
Sample ID	RK-SB-07T		RK-SB-08T		RK-SB-09T	
Sample Location	Rm 205		Rm 206		Rm 207	
Sample Type (Device)	Surface (Gel.TAPE)		Surface (Gel.TAPE)		Surface (Gel.TAPE)	
Date Analyzed	8/10/2023		8/10/2023		8/10/2023	
Identification	(1) Peak Density (within 1 mm dia.)*		(1) Peak Density (within 1 mm dia.)*		(1) Peak Density (within 1 mm dia.)*	
	Spores	Hyphae/Structure	Spores	Hyphae/Structure	Spores	Hyphae/Structure
Major Hydrophilic Fungi:***						
Stachybotrys						
Chaetomium						
Ulocladium						
Acremonium						
Trichoderma						
Aureobasidium						
Yeasts (cells)						
Other Fungi:						
Aspergillus/Penicillium-like	++		+			
Aspergillus						
Penicillium						
Cladosporium	++++	++	+		+	
Alternaria					+	
Curvularia						
Epicoccum	+					
Myxomycetes/smuts/Periconia					+	
Nigrospora						
Pithomyces						
Unidentifiable w/o culturing			+		+	
Summary	(2) Overall Coverage		(2) Overall Coverage		(2) Overall Coverage	
Sample Size Examined	150 mm ²		150 mm ²		150 mm ²	
IICRC S520 Condition With Grading#	3A: Slight Growth		1: Normal Background		1: Normal Background	
Mold/Yeast Growth Observed	Yes		No		No	
Sample Mold/Yeast Coverage**	Low: 3 - 10%		Trace: < 3%		Trace: < 3%	
Sample Debris Coverage**	H : > 50%		H : > 50%		H : > 50%	
Note						

IICRC S520 Condition With Grading: 1: Normal Background, 2-A: Settled Biomass, 2-B: Residual Biomass
 3-A: Slight Growth, 3-B: Moderate Growth, 3-C: Heavy Growth

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Lab Sample No.	ME230810-17(10)		ME230810-17(11)		ME230810-17(12)	
Sample ID	RK-SB-10T		RK-SB-11T		RK-SB12T	
Sample Location	Rm 209		Rm 210		Rm 211	
Sample Type (Device)	Surface (Gel.TAPE)		Surface (Gel.TAPE)		Surface (Gel.TAPE)	
Date Analyzed	8/10/2023		8/10/2023		8/10/2023	
Identification	(1) Peak Density (within 1 mm dia.)*		(1) Peak Density (within 1 mm dia.)*		(1) Peak Density (within 1 mm dia.)*	
	Spores	Hyphae/Structure	Spores	Hyphae/Structure	Spores	Hyphae/Structure
Major Hydrophilic Fungi:***						
Stachybotrys						
Chaetomium						
Ulocladium						
Acremonium						
Trichoderma						
Aureobasidium						
Yeasts (cells)						
Other Fungi:						
Aspergillus/Penicillium-like	+		++			
Aspergillus			++	+		
Penicillium						
Cladosporium	+		++	++	+	
Alternaria						
Curvularia						
Epicoccum	+		+			
Myxomycetes/smuts/Periconia	+		+			
Nigrospora						
Pithomyces						
Unidentifiable w/o culturing	+	+		++	+	+
Summary	(2) Overall Coverage		(2) Overall Coverage		(2) Overall Coverage	
Sample Size Examined	150 mm ²		150 mm ²		150 mm ²	
IICRC S520 Condition With Grading#	2A: Settled Biomass		3B: Moderate Growth		1: Normal Background	
Mold/Yeast Growth Observed	Settled		Yes		No	
Sample Mold/Yeast Coverage**	Trace: < 3%		Medium: 10 - 50%		Trace: < 3%	
Sample Debris Coverage**	H : > 50%		H : > 50%		H : > 50%	
Note						

IICRC S520 Condition With Grading: 1: Normal Background, 2-A: Settled Biomass, 2-B: Residual Biomass
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Lab Sample No.	ME230810-17(13)			
Sample ID	RK-SB-13T			
Sample Location	Rm 212			
Sample Type (Device)	Surface (Gel.TAPE)			
Date Analyzed	8/10/2023			
Identification	(1) Peak Density (within 1 mm dia.)*			
	Spores	Hyphae/Structure		
Major Hydrophilic Fungi:***				
Stachybotrys				
Chaetomium				
Ulocladium				
Acremonium				
Trichoderma				
Aureobasidium				
Yeasts (cells)				
Other Fungi:				
Aspergillus/Penicillium-like	+			
Aspergillus				
Penicillium				
Cladosporium				
Alternaria				
Curvularia	+			
Epicoccum	+			
Myxomycetes/smuts/Periconia	+			
Nigrospora				
Pithomyces				
Unidentifiable w/o culturing	+	+		
Summary	(2) Overall Coverage			
Sample Size Examined	150 mm ²			
IICRC S520 Condition With Grading#	2A: Settled Biomass			
Mold/Yeast Growth Observed	Settled			
Sample Mold/Yeast Coverage**	Trace: < 3%			
Sample Debris Coverage**	H : > 50%			
Note				

IICRC S520 Condition With Grading: 1: Normal Background, 2-A: Settled Biomass, 2-B: Residual Biomass
 3-A: Slight Growth, 3-B: Moderate Growth, 3-C: Heavy Growth

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