



## Mycologix™ Fungal Spore Differentiation

**Analysis:** AccuScience Premium Level 3 Fungal Spore Count™  
**Client:** RK Environmental  
 Phillipsburg, NJ  
**Contact:** McGuinness, Michael  
**Project ID:** Stony Brook

**QLAB Job No.:** ME230823-15  
**Date Sampled:** 8/22/2023  
**Date Received:** 8/23/2023  
**Date Reported:** 8/23/2023

Reviewed by: WT

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

Lab Sample No.	ME230823-15(1)			ME230823-15(2)			ME230823-15(3)		
Sample ID	5465876			5465933			5465848		
Sample Location	1- Main Office Suite			2- 308, 313, 314/316, 315/317			3 - 319, 318, 320, 321, 323		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Date Analyzed	8/23/2023			8/23/2023			8/23/2023		
Total Concentration (counts/m³)**	320 cts/m³			200 cts/m³			560 cts/m³		
Mycologix Profile Group 1, 2 & 3	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%
<b>1. Common Dominant Spores</b>	DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³		
Ascospores, non-specified (O)							4	53	9
Basidiospores (O,I)	23	310	96	11	150	74	23	310	55
Cladosporium, Group HM (O)									
Aspergillus/Penicillium-like, DOT (O) #Cluster-Chain-Loose Spore Profile™									
Cladosporium, Group C (O,I)									
Cladosporium, Group S (I)									
Aspergillus/Penicillium-like (I,O) ## Cluster-Chain-Loose Spore Profile™							15	200	36
Cluster(s)									0% - 0% - 100%
<b>2. Indoor Hydrophilic Fungi#</b>	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³		
Stachybotrys (I)									
Chaetomium (I)									
Ulocladium (I)									
Memnoniella (I)									
Trichoderma (I)									
Scopulariopsis (I)									
<b>3. Others</b>	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³		
Hyphal fragment (O,I)									
Alternaria (O,I)									
Cercospora (O)									
Curvularia (O,I)									
Drechslera/Bipolaris-like (O)									
Epicoccum (O)									
Fusarium (O,I)									
Myxomycetes/Smuts/Periconia (O,I)									
Nigrospora (O)									
Pithomyces (O)	1	13	4						
Rusts (O)									
Unknown (O,I)				4	53	26			
<b>Skin Cells Rating</b>	Low			Trace			Trace		
<b>Debris Rating</b>	2 (6 - 25%)			1 (≤ 5%)			2 (6 - 25%)		
<b>Note</b>									

\*: cts/smp: counts per sample. \*\*: All concentrations are rounded to two digits of significant figures. Total concentrations/percentages may not be equal to the sum of individual concentrations/percentages due to rounding. #: Water-loving indoor fungi (min Aw ≥ 0.89). Absence of hydrophilic fungi does not exclude the possibility of a water damage history. DL: detection limit (analytical sensitivity). LQL: Lower quantitation limit = 20 x DL. Upper quantitation limit depends on sample conditions. ## Asp/Pen-like spores: Loose: 1 to 2 spores; Chain: 3 to 9 spores; Cluster: 10 spores or more. O: Mostly outdoor origin with rare exceptions; I: Mostly indoor origin with rare exceptions. Distinct Outdoor Type (DOT): Distinct outdoor Asp/Pen spores that can be easily differentiated from indoor Asp/Pen spores. DOT is specific to the batch of samples collected at the same time and cannot be used for other batches.



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Lab Sample No.	ME230823-15(4)			ME230823-15(5)			ME230823-15(6)		
Sample ID	5465940			5465907			5465932		
Sample Location	4- 322, 324, 325, 326, 328			5- Gym Office			6- Gym, Music, 331		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Date Analyzed	8/23/2023			8/23/2023			8/23/2023		
Total Concentration (counts/m³)**	600 cts/m³			53 cts/m³			1,400 cts/m³		
Mycologix Profile Group 1, 2 & 3	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%
<b>1. Common Dominant Spores</b>	DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³		
Ascospores, non-specified (O)	8	110	18				8	110	8
Basidiospores (O,I)	26	350	58	4	53	100	87	1,200	84
Cladosporium, Group HM (O)									
Aspergillus/Penicillium-like, DOT (O) #Cluster-Chain-Loose Spore Profile™									
Cladosporium, Group C (O,I)							8	110	8
Cladosporium, Group S (I)									
Aspergillus/Penicillium-like (I,O) ## Cluster-Chain-Loose Spore Profile™ Cluster(s)	10	130	22						
		0% - 60% - 40%							
<b>2. Indoor Hydrophilic Fungi#</b>	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³		
Stachybotrys (I)									
Chaetomium (I)									
Ulocladium (I)									
Memnoniella (I)									
Trichoderma (I)									
Scopulariopsis (I)									
<b>3. Others</b>	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³		
Hyphal fragment (O,I)									
Alternaria (O,I)									
Cercospora (O)									
Curvularia (O,I)									
Drechslera/Bipolaris-like (O)									
Epicoccum (O)									
Fusarium (O,I)									
Myxomycetes/Smuts/Periconia (O,I)									
Nigrospora (O)									
Pithomyces (O)									
Rusts (O)									
Unknown (O,I)	1	13	2				1	13	<1
<b>Skin Cells Rating</b>	Trace			Trace			Trace		
<b>Debris Rating</b>	1 (≤ 5%)			1 (≤ 5%)			2 (6 - 25%)		
<b>Note</b>									

\*: cts/smp: counts per sample. \*\*: All concentrations are rounded to two digits of significant figures. Total concentrations/percentages may not be equal to the sum of individual concentrations/percentages due to rounding. #: Water-loving indoor fungi (min Aw ≥0.89). Absence of hydrophilic fungi does not exclude the possibility of a water damage history. DL: detection limit (analytical sensitivity). LQL: Lower quantitation limit = 20 x DL. Upper quantitation limit depends on sample conditions. ## Asp/Pen-like spores: Loose: 1 to 2 spores; Chain: 3 to 9 spores; Cluster: 10 spores or more. O: Mostly outdoor origin with rare exceptions; I: Mostly indoor origin with rare exceptions. Distinct Outdoor Type (DOT): Distinct outdoor Asp/Pen spores that can be easily differentiated from indoor Asp/Pen spores. DOT is specific to the batch of samples collected at the same time and cannot be used for other batches.



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Lab Sample No.	ME230823-15(7)			ME230823-15(8)			ME230823-15(9)		
Sample ID	5465868			5465927			5465908		
Sample Location	7- Cafe, 122, 123			8- Media, 124, 117			9- Nurse/102, 101 Suite, 301 Stor.		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Date Analyzed	8/23/2023			8/23/2023			8/23/2023		
Total Concentration (counts/m³)**	570 cts/m³			110 cts/m³			470 cts/m³		
Mycologix Profile Group 1, 2 & 3	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%
<b>1. Common Dominant Spores</b>	DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³		
Ascospores, non-specified (O)							11	150	32
Basidiospores (O,I)	42	560	98						
Cladosporium, Group HM (O)									
Aspergillus/Penicillium-like, DOT (O) #Cluster-Chain-Loose Spore Profile™									
Cladosporium, Group C (O,I)									
Cladosporium, Group S (I)									
Aspergillus/Penicillium-like (I,O) ## Cluster-Chain-Loose Spore Profile™ Cluster(s)				8	110	100	23	310	66
						0% - 0% - 100%			0% - 0% - 100%
<b>2. Indoor Hydrophilic Fungi#</b>	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³		
Stachybotrys (I)									
Chaetomium (I)									
Ulocladium (I)									
Memnoniella (I)									
Trichoderma (I)									
Scopulariopsis (I)									
<b>3. Others</b>	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³		
Hyphal fragment (O,I)									
Alternaria (O,I)									
Cercospora (O)									
Curvularia (O,I)	1	13	2						
Drechslera/Bipolaris-like (O)									
Epicoccum (O)									
Fusarium (O,I)									
Myxomycetes/Smuts/Periconia (O,I)									
Nigrospora (O)									
Pithomyces (O)									
Rusts (O)									
Unknown (O,I)							1	13	3
<b>Skin Cells Rating</b>	Trace			Trace			Low		
<b>Debris Rating</b>	2 (6 - 25%)			2 (6 - 25%)			2 (6 - 25%)		
<b>Note</b>									

\*: cts/smp: counts per sample. \*\*: All concentrations are rounded to two digits of significant figures. Total concentrations/percentages may not be equal to the sum of individual concentrations/percentages due to rounding. #: Water-loving indoor fungi (min Aw ≥0.89). Absence of hydrophilic fungi does not exclude the possibility of a water damage history. DL: detection limit (analytical sensitivity). LQL: Lower quantitation limit = 20 x DL. Upper quantitation limit depends on sample conditions. ## Asp/Pen-like spores: Loose: 1 to 2 spores; Chain: 3 to 9 spores; Cluster: 10 spores or more. O: Mostly outdoor origin with rare exceptions; I: Mostly indoor origin with rare exceptions. Distinct Outdoor Type (DOT): Distinct outdoor Asp/Pen spores that can be easily differentiated from indoor Asp/Pen spores. DOT is specific to the batch of samples collected at the same time and cannot be used for other batches.



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Lab Sample No.	ME230823-15(10)			ME230823-15(11)			ME230823-15(12)		
Sample ID	5465923			5465936			5465877		
Sample Location	10- 103, 104, 105, 115, 117			11- 106, 107, 108, 110			12- 201, 210, 209, 202		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Date Analyzed	8/23/2023			8/23/2023			8/23/2023		
Total Concentration (counts/m³)**	1,400 cts/m³			540 cts/m³			920 cts/m³		
Mycologix Profile Group 1, 2 & 3	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%
<b>1. Common Dominant Spores</b>	DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³		
Ascospores, non-specified (O)	8	110	8				8	110	12
Basidiospores (O,I)	95	1,300	92	38	510	95	45	600	65
Cladosporium, Group HM (O)									
Aspergillus/Penicillium-like, DOT (O) #Cluster-Chain-Loose Spore Profile™									
Cladosporium, Group C (O,I)									
Cladosporium, Group S (I)									
Aspergillus/Penicillium-like (I,O) ## Cluster-Chain-Loose Spore Profile™				2	27	5	15	200	22
Cluster(s)				0% - 100% - 0%			100% - 0% - 0%		
							1 cluster(s) of 15 spores		
<b>2. Indoor Hydrophilic Fungi#</b>	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³		
Stachybotrys (I)									
Chaetomium (I)									
Ulocladium (I)									
Memnoniella (I)									
Trichoderma (I)									
Scopulariopsis (I)									
<b>3. Others</b>	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³		
Hyphal fragment (O,I)									
Alternaria (O,I)									
Cercospora (O)									
Curvularia (O,I)									
Drechslera/Bipolaris-like (O)									
Epicoccum (O)									
Fusarium (O,I)									
Myxomycetes/Smuts/Periconia (O,I)									
Nigrospora (O)							1	13	1
Pithomyces (O)									
Rusts (O)									
Unknown (O,I)									
<b>Skin Cells Rating</b>	Trace			Trace			Trace		
<b>Debris Rating</b>	2 (6 - 25%)			1 (≤ 5%)			1 (≤ 5%)		
<b>Note</b>									

\*: cts/smp: counts per sample. \*\*: All concentrations are rounded to two digits of significant figures. Total concentrations/percentages may not be equal to the sum of individual concentrations/percentages due to rounding. #: Water-loving indoor fungi (min Aw ≥0.89). Absence of hydrophilic fungi does not exclude the possibility of a water damage history. DL: detection limit (analytical sensitivity). LQL: Lower quantitation limit = 20 x DL. Upper quantitation limit depends on sample conditions. ## Asp/Pen-like spores: Loose: 1 to 2 spores; Chain: 3 to 9 spores; Cluster: 10 spores or more. O: Mostly outdoor origin with rare exceptions; I: Mostly indoor origin with rare exceptions. Distinct Outdoor Type (DOT): Distinct outdoor Asp/Pen spores that can be easily differentiated from indoor Asp/Pen spores. DOT is specific to the batch of samples collected at the same time and cannot be used for other batches.



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Lab Sample No.	ME230823-15(13)			ME230823-15(14)			ME230823-15(15)		
Sample ID	5465856			5465891			5465912		
Sample Location	13- 202A, 214A, 203, 204, 208			14- 207, 206, 205, 212, 211			15- OAR 1		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Date Analyzed	8/23/2023			8/23/2023			8/23/2023		
Total Concentration (counts/m³)**	1,200 cts/m³			530 cts/m³			30,000 cts/m³		
Mycologix Profile Group 1, 2 & 3	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%
<b>1. Common Dominant Spores</b>	DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³			DL = 130; LQL = 2700 cts/m³		
Ascospores, non-specified (O)	15	200	16				101	1,300	4
Basidiospores (O,I)	72	960	77	26	350	67	2,141	29,000	95
Cladosporium, Group HM (O)									
Aspergillus/Penicillium-like, DOT (O) #Cluster-Chain-Loose Spore Profile™									
Cladosporium, Group C (O,I)	4	53	4	8	110	21			
Cladosporium, Group S (I)									
Aspergillus/Penicillium-like (I,O) ## Cluster-Chain-Loose Spore Profile™ Cluster(s)				4	53	10			
					0% - 0% - 100%				
<b>2. Indoor Hydrophilic Fungi#</b>	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³		
Stachybotrys (I)									
Chaetomium (I)									
Ulocladium (I)									
Memnoniella (I)									
Trichoderma (I)									
Scopulariopsis (I)									
<b>3. Others</b>	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³		
Hyphal fragment (O,I)	1	13	1				5	67	<1
Alternaria (O,I)							1	13	<1
Cercospora (O)									
Curvularia (O,I)									
Drechslera/Bipolaris-like (O)									
Epicoccum (O)									
Fusarium (O,I)									
Myxomycetes/Smuts/Periconia (O,I)									
Nigrospora (O)									
Pithomyces (O)	1	13	1						
Rusts (O)									
Unknown (O,I)				1	13	2	5	67	<1
<b>Skin Cells Rating</b>	Low			Trace			None		
<b>Debris Rating</b>	2 (6 - 25%)			2 (6 - 25%)			2 (6 - 25%)		
<b>Note</b>									

\*: cts/smp: counts per sample. \*\*: All concentrations are rounded to two digits of significant figures. Total concentrations/percentages may not be equal to the sum of individual concentrations/percentages due to rounding. #: Water-loving indoor fungi (min Aw ≥0.89). Absence of hydrophilic fungi does not exclude the possibility of a water damage history. DL: detection limit (analytical sensitivity). LQL: Lower quantitation limit = 20 x DL. Upper quantitation limit depends on sample conditions. ## Asp/Pen-like spores: Loose: 1 to 2 spores; Chain: 3 to 9 spores; Cluster: 10 spores or more. O: Mostly outdoor origin with rare exceptions; I: Mostly indoor origin with rare exceptions. Distinct Outdoor Type (DOT): Distinct outdoor Asp/Pen spores that can be easily differentiated from indoor Asp/Pen spores. DOT is specific to the batch of samples collected at the same time and cannot be used for other batches.

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<b>Lab Sample No.</b>	ME230823-15(16)				
<b>Sample ID</b>	5465930				
<b>Sample Location</b>	16- OAR 2				
<b>Sample Type (Device)</b>	Air (Allergenco-D)				
<b>Air Volume</b>	75 L				
<b>Date Analyzed</b>	8/23/2023				
<b>Total Concentration (counts/m³)**</b>	22,000 cts/m³				
<b>Mycologix Profile Group 1, 2 &amp; 3</b>	cts/smp*	counts/m³	%		
<b>1. Common Dominant Spores</b>	DL = 110; LQL = 2100 cts/m³				
Ascospores, non-specified (O)	106	1,400	6		
Basidiospores (O,I)	1,495	20,000	91		
Cladosporium, Group HM (O)					
Aspergillus/Penicillium-like, DOT (O) #Cluster-Chain-Loose Spore Profile™					
Cladosporium, Group C (O,I)	30	400	2		
Cladosporium, Group S (I)					
Aspergillus/Penicillium-like (I,O) ## Cluster-Chain-Loose Spore Profile™ Cluster(s)					
<b>2. Indoor Hydrophilic Fungi#</b>	DL = 13; LQL = 270 cts/m³				
Stachybotrys (I)					
Chaetomium (I)					
Ulocladium (I)					
Memnoniella (I)					
Trichoderma (I)					
Scopulariopsis (I)					
<b>3. Others</b>	DL = 13; LQL = 270 cts/m³				
Hyphal fragment (O,I)	2	27	<1		
Alternaria (O,I)					
Cercospora (O)					
Curvularia (O,I)					
Drechslera/Bipolaris-like (O)					
Epicoccum (O)	1	13	<1		
Fusarium (O,I)					
Myxomycetes/Smuts/Periconia (O,I)					
Nigrospora (O)					
Pithomyces (O)	1	13	<1		
Rusts (O)					
Unknown (O,I)	3	40	<1		
<b>Skin Cells Rating</b>	None				
<b>Debris Rating</b>	2 (6 - 25%)				
<b>Note</b>					

\*: cts/smp: counts per sample. \*\*: All concentrations are rounded to two digits of significant figures. Total concentrations/percentages may not be equal to the sum of individual concentrations/percentages due to rounding. #: Water-loving indoor fungi (min Aw ≥0.89). Absence of hydrophilic fungi does not exclude the possibility of a water damage history. DL: detection limit (analytical sensitivity). LQL: Lower quantitation limit = 20 x DL. Upper quantitation limit depends on sample conditions. ## Asp/Pen-like spores: Loose: 1 to 2 spores; Chain: 3 to 9 spores; Cluster: 10 spores or more. O: Mostly outdoor origin with rare exceptions; I: Mostly indoor origin with rare exceptions. Distinct Outdoor Type (DOT): Distinct outdoor Asp/Pen spores that can be easily differentiated from indoor Asp/Pen spores. DOT is specific to the batch of samples collected at the same time and cannot be used for other batches.