



AccuScience™
Analysis Report

QLab, 256 Bridge St, Metuchen, NJ 08840
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AIHA EMPAT Lab ID: 178794

Analysis: AccuScience Premium Level 3 Fungal Spore Count™
Client: RK Environmental
Phillipsburg, NJ
Contact: McGuinness, Michael
Project ID: Desmares ES / Flemington
Date Sampled: 9/24/2018

QLab Job No.: ME180925-11
Date Received: 9/25/2018
Date Analyzed: 9/26/2018
Date Reported: 9/26/2018

Reviewed by: WT

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

Lab Sample No.	ME180925-11(1)			ME180925-11(2)			ME180925-11(3)		
Sample ID	2779635			2779632			2779645		
Sample Location	Room 2			Room 3			Room 4		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Total Concentration (counts/m³)**	13,000 cts/m³			7,800 cts/m³			7,300 cts/m³		
Mycologix Profile Group 1, 2 & 3	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%
1. Common Dominant Spores	DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³		
Ascospores, non-specified (O)	79	1,100	8	8	110	1	60	800	11
Basidiospores (O,I)	314	4,200	32	284	3,800	49	325	4,300	59
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™	585	7,800	59	285	3,800	49	159	2,100	29
Cluster(s)	21% - 54% - 25% 3 cluster(s) of 28, 13, 82 spores			59% - 13% - 28% 4 cluster(s) of 30, 95, 19, 24 spores			10% - 54% - 36% 1 cluster(s) of 16 spores		
2. Indoor Hydrophilic Fungi#	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)									
3. Others	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			
Alternaria (O,I)									
Cercospora (O)									
Curvularia (O,I)									
Drechslera/Bipolaris-like (O)									
Epicoccum (O)									
Fusarium (O,I)									
Myxomycetes/Smuts/Periconia (O,I)	1	13	<1	2	27	<1	3	40	<1
Nigrospora (O)									
Pithomyces (O)									
Rusts (O)									
Unknown (O,I)							1	13	<1
Skin Cells Rating	Low			Low			Low		
Debris Rating	2 (6 - 25%)			2 (6 - 25%)			2 (6 - 25%)		
Note									

*: 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.	ME180925-11(4)			ME180925-11(5)			
Sample ID	2779630			2779640			
Sample Location	OAR - 1			OAR - 2			
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			
Air Volume	75 L			75 L			
Total Concentration (counts/m³)**	14,000 cts/m³			16,000 cts/m³			
Mycologix Profile Group 1, 2 & 3	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%	
1. Common Dominant Spores	DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³			
Ascospores, non-specified (O)	26	350	3	64	850	5	
Basidiospores (O,I)	911	12,000	86	953	13,000	83	
Cladosporium, Group HM (O)							
Aspergillus/Penicillium-like, DOT (O) #Cluster-Chain-Loose Spore Profile™							
Cladosporium, Group C (O,I)	57	760	5	72	960	6	
Cladosporium, Group S (I)							
Aspergillus/Penicillium-like (I,O) ## Cluster-Chain-Loose Spore Profile™	27	360	3	19	250	2	
Cluster(s)	44% - 0% - 56% 1 cluster(s) of 12 spores			0% - 42% - 58%			
2. Indoor Hydrophilic Fungi#	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³			
Stachybotrys (I)							
Chaetomium (I)							
Ulocladium (I)							
Memnoniella (I)							
Trichoderma (I)							
Scopulariopsis (I)							
3. Others	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³			
Hyphal fragment (O,I)	3	40	<1	8	110	<1	
Alternaria (O,I)	2	27	<1				
Cercospora (O)	1	13	<1	1	13	<1	
Curvularia (O,I)				1	13	<1	
Drechslera/Bipolaris-like (O)							
Epicoccum (O)	3	40	<1	1	13	<1	
Fusarium (O,I)				2	27	<1	
Myxomycetes/Smuts/Periconia (O,I)	13	170	1	9	120	<1	
Nigrospora (O)							
Pithomyces (O)	12	160	1	7	93	<1	
Rusts (O)				4	53	<1	
Unknown (O,I)	3	40	<1	8	110	<1	
Skin Cells Rating	None			Trace			
Debris Rating	2 (6 - 25%)			2 (6 - 25%)			
Note							

*: 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.