



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:** Francis A Desmares ES  
**Date Sampled:** 9/7/2018

**QLab Job No.:** ME180907-13  
**Date Received:** 9/7/2018  
**Date Analyzed:** 9/8/2018  
**Date Reported:** 9/9/2018

**Reviewed by:** WT

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

Lab Sample No.	ME180907-13(1)			ME180907-13(2)			ME180907-13(3)		
Sample ID	2779148			2779162			2779727		
Sample Location	OAR 1			OAR 2			OAR 3		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Total Concentration (counts/m³)**	41,000 cts/m³			52,000 cts/m³			48,000 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 = 150; LQL = 2900 cts/m³			DL = 150; LQL = 2900 cts/m³			DL = 150; LQL = 2900 cts/m³		
Ascospores, non-specified (O)	335	4,500	11	302	4,000	8	540	7,200	15
Basidiospores (O,I)	2,257	30,000	73	3,240	43,000	82	2,592	35,000	73
Cladosporium, Group HM (O)									
Aspergillus/Penicillium-like, DOT (O) #Cluster-Chain-Loose Spore Profile™									
Cladosporium, Group C (O,I)	259	3,500	8	205	2,700	5	292	3,900	8
Cladosporium, Group S (I)									
Aspergillus/Penicillium-like (I,O) ## Cluster-Chain-Loose Spore Profile™	184	2,500	6	151	2,000	4	130	1,700	4
Cluster(s)	0% - 70% - 30%			0% - 43% - 57%			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)	2	27	<1	3	40	<1	1	13	<1
Alternaria (O,I)	1	13	<1	1	13	<1			
Cercospora (O)	6	80	<1	10	130	<1	4	53	<1
Curvularia (O,I)	2	27	<1	1	13	<1	1	13	<1
Drechslera/Bipolaris-like (O)									
Epicoccum (O)	3	40	<1				1	13	<1
Fusarium (O,I)									
Myxomycetes/Smuts/Periconia (O,I)	8	110	<1	10	130	<1	6	80	<1
Nigrospora (O)	2	27	<1	3	40	<1	2	27	<1
Pithomyces (O)	13	170	<1	14	190	<1	8	110	<1
Rusts (O)				2	27	<1			
Unknown (O,I)	15	200	<1	5	67	<1	6	80	<1
<b>Skin Cells Rating</b>	Trace			Trace			Trace		
<b>Debris Rating</b>	3 (26 - 75%)			2 (6 - 25%)			3 (26 - 75%)		
<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.	ME180907-13(4)			ME180907-13(5)			ME180907-13(6)		
Sample ID	2779151			2779742			2779169		
Sample Location	Nurse			Main Office			Library		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Total Concentration (counts/m³)**	< DL cts/m³			13 cts/m³			93 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)									
Basidiospores (O,I)									
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)									
<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	14
Alternaria (O,I)									
Cercospora (O)							1	13	14
Curvularia (O,I)									
Drechslera/Bipolaris-like (O)									
Epicoccum (O)									
Fusarium (O,I)									
Myxomycetes/Smuts/Periconia (O,I)				1	13	100	2	27	29
Nigrospora (O)									
Pithomyces (O)									
Rusts (O)									
Unknown (O,I)							3	40	43
<b>Skin Cells Rating</b>	Trace								
<b>Debris Rating</b>	1 (≤ 5%)								
<b>Note</b>	No fungal structure observed								

\*: 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.