



AccuScience™
Analysis Report

QLab, 256 Bridge St, Metuchen, NJ 08840
info@qlabusa.com www.QLABusa.com
AIHA EMPAT Lab ID: 178794

Analysis: AccuScience Premium Level 3 Fungal Spore Count™
Client: RK Environmental
Phillipsburg, NJ
Contact: McGuinness, Michael
Project ID: Barley Sheaf ES
Date Sampled: 9/14/2018

QLab Job No.: ME180914-14
Date Received: 9/14/2018
Date Analyzed: 9/17/2018
Date Reported: 9/17/2018

Reviewed by: WT

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

Lab Sample No.	ME180914-14(9)			ME180914-14(10)			ME180914-14(11)		
Sample ID	2802657			2802663			2802667		
Sample Location	OAR			Rm 26			Faculty Rm		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Total Concentration (counts/m³)**	33,000 cts/m³			12,000 cts/m³			12,000 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 = 130; LQL = 2700 cts/m³			DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³		
Ascospores, non-specified (O)	182	2,400	7	45	600	5	45	600	5
Basidiospores (O,I)	2,273	30,000	91	805	11,000	88	692	9,200	78
Cladosporium, Group HM (O)									
Aspergillus/Penicillium-like, DOT (O) <i>#Cluster-Chain-Loose Spore Profile™</i>									
Cladosporium, Group C (O,I)	17	230	<1	62	830	7	35	470	4
Cladosporium, Group S (I)									
Aspergillus/Penicillium-like (I,O) <i>## Cluster-Chain-Loose Spore Profile™</i>							116	1,500	13
<i>Cluster(s)</i>									0% - 77% - 23%
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)									
Alternaria (O,I)	1	13	<1						
Cercospora (O)	3	40	<1						
Curvularia (O,I)									
Drechslera/Bipolaris-like (O)									
Epicoccum (O)	1	13	<1						
Fusarium (O,I)									
Myxomycetes/Smuts/Periconia (O,I)	2	27	<1						
Nigrospora (O)									
Pithomyces (O)	11	150	<1				2	27	<1
Rusts (O)									
Unknown (O,I)				1	13	<1			
Skin Cells Rating	Trace			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.	ME180914-14(12)			ME180914-14(13)			ME180914-14(14)		
Sample ID	2802673			2802668			2802676		
Sample Location	OAR 2			Rm 36			Rm 23		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Total Concentration (counts/m³)**	36,000 cts/m³			10,000 cts/m³			5,300 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 = 130; LQL = 2700 cts/m³			DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³		
Ascospores, non-specified (O)	343	4,600	13	19	250	3	23	310	6
Basidiospores (O,I)	2,293	31,000	86	665	8,900	89	348	4,600	87
Cladosporium, Group HM (O)									
Aspergillus/Penicillium-like, DOT (O) <i>#Cluster-Chain-Loose Spore Profile™</i>									
Cladosporium, Group C (O,I)				42	560	6	11	150	3
Cladosporium, Group S (I)									
Aspergillus/Penicillium-like (I,O) <i>## Cluster-Chain-Loose Spore Profile™</i>				19	250	3	15	200	4
<i>Cluster(s)</i>				0% - 0% - 100%			0% - 100% - 0%		
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)									
Memmoniella (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)	1	13	<1						
Cercospora (O)	15	200	<1						
Curvularia (O,I)									
Drechslera/Bipolaris-like (O)									
Epicoccum (O)									
Fusarium (O,I)							1	13	<1
Myxomycetes/Smuts/Periconia (O,I)									
Nigrospora (O)									
Pithomyces (O)	3	40	<1						
Rusts (O)									
Unknown (O,I)	1	13	<1	1	13	<1			
Skin Cells Rating	None			Trace			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.	ME180914-14(15)			ME180914-14(16)			ME180914-14(17)		
Sample ID	2802674			2802658			2802659		
Sample Location	Rm 49			Rm 39			Rm 24		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Total Concentration (counts/m³)**	8,000 cts/m³			6,800 cts/m³			10,000 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)	8	110	1	8	110	2	8	110	1
Basidiospores (O,I)	533	7,100	89	491	6,500	96	616	8,200	79
Cladosporium, Group HM (O)									
Aspergillus/Penicillium-like, DOT (O) #Cluster-Chain-Loose Spore Profile™									
Cladosporium, Group C (O,I)	19	250	3	11	150	2	45	600	6
Cladosporium, Group S (I)									
Aspergillus/Penicillium-like (I,O) ## Cluster-Chain-Loose Spore Profile™ Cluster(s)	38	510	6				83	1,100	11
		0% - 70% - 30%						0% - 0% - 100%	
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)									
Nigrospora (O)									
Pithomyces (O)									
Rusts (O)									
Unknown (O,I)							27	360	3
Skin Cells Rating	Trace			Low			Trace		
Debris Rating	2 (6 - 25%)			2 (6 - 25%)			2 (6 - 25%)		
Note									

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Lab Sample No.	ME180914-14(18)				
Sample ID	2802666				
Sample Location	Rm 28				
Sample Type (Device)	Air (Allergenco-D)				
Air Volume	75 L				
Total Concentration (counts/m³)**	8,300 cts/m³				
Mycologix Profile Group 1, 2 & 3	cts/smp*	counts/m³	%		
1. Common Dominant Spores	DL = 53; LQL = 1100 cts/m³				
Ascospores, non-specified (O)					
Basidiospores (O,I)	480	6,400	77		
Cladosporium, Group HM (O)					
Aspergillus/Penicillium-like, DOT (O) <i>#Cluster-Chain-Loose Spore Profile™</i>					
Cladosporium, Group C (O,I)					
Cladosporium, Group S (I)					
Aspergillus/Penicillium-like (I,O) <i>## Cluster-Chain-Loose Spore Profile™</i>	136	1,800	22		
<i>Cluster(s)</i>			0% - 39% - 61%		
2. Indoor Hydrophilic Fungi#	DL = 13; LQL = 270 cts/m³				
Stachybotrys (I)					
Chaetomium (I)					
Ulocladium (I)					
Memmoniella (I)					
Trichoderma (I)					
Scopulariopsis (I)					
3. Others	DL = 13; LQL = 270 cts/m³				
Hyphal fragment (O,I)					
Alternaria (O,I)					
Cercospora (O)					
Curvularia (O,I)	1	13	<1		
Drechslera/Bipolaris-like (O)					
Epicoccum (O)	2	27	<1		
Fusarium (O,I)					
Myxomycetes/Smuts/Periconia (O,I)					
Nigrospora (O)	1	13	<1		
Pithomyces (O)					
Rusts (O)					
Unknown (O,I)	1	13	<1		
Skin Cells Rating	Low				
Debris Rating	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.