



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: Francis A Desmares ES
Date Sampled: 9/4/2018

QLab Job No.: ME180904-14
Date Received: 9/4/2018
Date Analyzed: 9/5/2018
Date Reported: 9/6/2018

Reviewed by: WT

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

Lab Sample No.	ME180904-14(14)			ME180904-14(15)			ME180904-14(16)		
Sample ID	1-2779748			2-2779763			3-2779768		
Sample Location	17B			OAR2			15A		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Total Concentration (counts/m³)**	4,800 cts/m³			45,000 cts/m³			15,000 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 = 150; LQL = 2900 cts/m³			DL = 53; LQL = 1100 cts/m³		
Ascospores, non-specified (O)	60	800	17	774	10,000	22	113	1,500	10
Basidiospores (O,I)	198	2,600	54	2,344	31,000	68	665	8,900	59
Cladosporium, Group HM (O)									
Aspergillus/Penicillium-like, DOT (O) <i>#Cluster-Chain-Loose Spore Profile™</i>									
Cladosporium, Group C (O,I)	16	210	4	164	2,200	5	40	530	4
Cladosporium, Group S (I)									
Aspergillus/Penicillium-like (I,O) <i>## Cluster-Chain-Loose Spore Profile™</i>	85	1,100	23	113	1,500	3	297	4,000	27
<i>Cluster(s)</i>	0% - 28% - 72%			52% - 0% - 48%			6% - 94% - 0%		
				1 cluster(s) of 59 spores			1 cluster(s) of 19 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	2	27	<1	1	13	<1
Alternaria (O,I)				1	13	<1			
Cercospora (O)				6	80	<1			
Curvularia (O,I)				2	27	<1			
Drechslera/Bipolaris-like (O)									
Epicoccum (O)	1	13	<1	2	27	<1			
Fusarium (O,I)									
Myxomycetes/Smuts/Periconia (O,I)				13	170	<1	1	13	<1
Nigrospora (O)	1	13	<1	6	80	<1			
Pithomyces (O)	4	53	1	17	230	<1	2	27	<1
Rusts (O)									
Unknown (O,I)				3	40	<1			
Skin Cells Rating	Low			Trace			Medium		
Debris Rating	3 (26 - 75%)			3 (26 - 75%)			3 (26 - 75%)		
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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Contact: McGuinness, Michael
Project ID: Francis A Desmares ES
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Lab Sample No.	ME180904-14(17)			ME180904-14(18)			ME180904-14(19)		
Sample ID	4-2779769			5-2779764			6-2779758		
Sample Location	15B			14			17A		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Total Concentration (counts/m³)**	49,000 cts/m³			45,000 cts/m³			36,000 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 = 150; LQL = 2900 cts/m³			DL = 150; LQL = 2900 cts/m³			DL = 110; LQL = 2100 cts/m³		
Ascospores, non-specified (O)	806	11,000	22	645	8,600	19	629	8,400	23
Basidiospores (O,I)	2,602	35,000	71	2,312	31,000	69	1,677	22,000	61
Cladosporium, Group HM (O)									
Aspergillus/Penicillium-like, DOT (O) #Cluster-Chain-Loose Spore Profile™									
Cladosporium, Group C (O,I)	147	2,000	4	258	3,400	8	229	3,100	9
Cladosporium, Group S (I)									
Aspergillus/Penicillium-like (I,O) ## Cluster-Chain-Loose Spore Profile™	86	1,100	2	118	1,600	4	194	2,600	7
Cluster(s)	0% - 63% - 37%			0% - 55% - 45%			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)									
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	2	27	<1	1	13	<1
Alternaria (O,I)				1	13	<1	1	13	<1
Cercospora (O)	2	27	<1	3	40	<1	2	27	<1
Curvularia (O,I)									
Drechslera/Bipolaris-like (O)									
Epicoccum (O)									
Fusarium (O,I)				2	27	<1			
Myxomycetes/Smuts/Periconia (O,I)	1	13	<1	1	13	<1			
Nigrospora (O)									
Pithomyces (O)				2	27	<1	1	13	<1
Rusts (O)									
Unknown (O,I)									
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.	ME180904-14(20)			ME180904-14(21)			ME180904-14(22)		
Sample ID	7-2779753			8-2779749			9-2779750		
Sample Location	OAR1 (17B)			Rm 12			Rm 10		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Total Concentration (counts/m³)**	45,000 cts/m³			21,000 cts/m³			56,000 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 = 110; LQL = 2100 cts/m³			DL = 67; LQL = 1300 cts/m³			DL = 150; LQL = 2900 cts/m³		
Ascospores, non-specified (O)	677	9,000	20	280	3,700	17	258	3,400	6
Basidiospores (O,I)	2,032	27,000	59	1,048	14,000	65	1,419	19,000	34
Cladosporium, Group HM (O)									
Aspergillus/Penicillium-like, DOT (O) <i>#Cluster-Chain-Loose Spore Profile™</i>									
Cladosporium, Group C (O,I)	468	6,200	14	145	1,900	9	172	2,300	4
Cladosporium, Group S (I)									
Aspergillus/Penicillium-like (I,O) <i>## Cluster-Chain-Loose Spore Profile™</i>	202	2,700	6	135	1,800	8	2,301	31,000	56
<i>Cluster(s)</i>	0% - 100% - 0%			28% - 72% - 0%			Too numerous to categorize		
				1 cluster(s) of 38 spores			Too numerous to categorize		
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)	2	27	<1				2	27	<1
Alternaria (O,I)	1	13	<1						
Cercospora (O)	11	150	<1	2	27	<1	1	13	<1
Curvularia (O,I)	8	110	<1						
Drechslera/Bipolaris-like (O)									
Epicoccum (O)	2	27	<1						
Fusarium (O,I)									
Myxomycetes/Smuts/Periconia (O,I)	4	53	<1						
Nigrospora (O)	1	13	<1				1	13	<1
Pithomyces (O)	11	150	<1				1	13	<1
Rusts (O)									
Unknown (O,I)									
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.	ME180904-14(23)			ME180904-14(24)			ME180904-14(25)		
Sample ID	10-2779754			11-2779770			12-2779765		
Sample Location	9A			5			OAR3		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Total Concentration (counts/m³)**	17,000 cts/m³			15,000 cts/m³			40,000 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 = 110; LQL = 2100 cts/m³		
Ascospores, non-specified (O)	165	2,200	13	97	1,300	9	290	3,900	10
Basidiospores (O,I)	867	12,000	69	887	12,000	79	1,839	25,000	63
Cladosporium, Group HM (O)									
Aspergillus/Penicillium-like, DOT (O) #Cluster-Chain-Loose Spore Profile™									
Cladosporium, Group C (O,I)	172	2,300	13	40	530	3	358	4,800	12
Cladosporium, Group S (I)									
Aspergillus/Penicillium-like (I,O) ## Cluster-Chain-Loose Spore Profile™	65	870	5	97	1,300	9	385	5,100	13
Cluster(s)	0% - 25% - 75%			0% - 67% - 33%			21% - 59% - 20%		
							2 cluster(s) of 39, 40 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	2	27	<1	2	27	<1
Alternaria (O,I)							1	13	<1
Cercospora (O)	3	40	<1				16	210	<1
Curvularia (O,I)							3	40	<1
Drechslera/Bipolaris-like (O)							2	27	<1
Epicoccum (O)							2	27	<1
Fusarium (O,I)									
Myxomycetes/Smuts/Periconia (O,I)	1	13	<1						
Nigrospora (O)							3	40	<1
Pithomyces (O)	2	27	<1				37	490	1
Rusts (O)									
Unknown (O,I)				6	80	<1	1	13	<1
Skin Cells Rating	Low			Low			Trace		
Debris Rating	2 (6 - 25%)			2 (6 - 25%)			2 (6 - 25%)		
Note									

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Lab Sample No.	ME180904-14(26)			ME180904-14(27)			ME180904-14(28)		
Sample ID	13-2779751			14-2779755			15-2779759		
Sample Location	5C			9			Rm 11		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Total Concentration (counts/m³)**	810 cts/m³			13,000 cts/m³			9,000 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)	12	160	20	113	1,500	12	81	1,100	12
Basidiospores (O,I)	32	430	53	520	6,900	54	214	2,900	32
Cladosporium, Group HM (O)									
Aspergillus/Penicillium-like, DOT (O) #Cluster-Chain-Loose Spore Profile™									
Cladosporium, Group C (O,I)	8	110	14	137	1,800	14	48	640	7
Cladosporium, Group S (I)									
Aspergillus/Penicillium-like (I,O) ## Cluster-Chain-Loose Spore Profile™	8	110	14	177	2,400	19	319	4,300	48
Cluster(s)	0% - 0% - 100%			0% - 64% - 36%			0% - 81% - 19%		
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)				3	40	<1			
Alternaria (O,I)									
Cercospora (O)				5	67	<1			
Curvularia (O,I)									
Drechslera/Bipolaris-like (O)									
Epicoccum (O)									
Fusarium (O,I)									
Myxomycetes/Smuts/Periconia (O,I)				1	13	<1	2	27	<1
Nigrospora (O)									
Pithomyces (O)				2	27	<1			
Rusts (O)									
Unknown (O,I)							1	13	<1
Skin Cells Rating	High			Low			Medium		
Debris Rating	5B (> 90%, Overloaded)			3 (26 - 75%)			4 (76 - 90%)		
Note	Collection efficiency and analysis accuracy may be limited.								

*: 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.	ME180904-14(29)				
Sample ID	16-2779760				
Sample Location	7				
Sample Type (Device)	Air (Allergenco-D)				
Air Volume	75 L				
Total Concentration (counts/m³)**	21,000 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)	339	4,500	21		
Basidiospores (O,I)	927	12,000	57		
Cladosporium, Group HM (O)					
Aspergillus/Penicillium-like, DOT (O) <i>#Cluster-Chain-Loose Spore Profile™</i>					
Cladosporium, Group C (O,I)	111	1,500	7		
Cladosporium, Group S (I)					
Aspergillus/Penicillium-like (I,O) <i>## Cluster-Chain-Loose Spore Profile™</i>	230	3,100	15		
<i>Cluster(s)</i>			0% - 74% - 26%		
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)	1	13	<1		
Cercospora (O)	5	67	<1		
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)					
Skin Cells Rating	Low				
Debris Rating	3 (26 - 75%)				
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.