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AIHA EMPAT Lab ID: 178794

AccuScience™ Analysis Report

Analysis: AccuScience Premium Level 3 Fungal Spore Count™
Client: RK Environmental
Phillipsburg, NJ
Contact: McGuinness, Michael
Project ID: **JP Case MS / Flemington-Raritan**
Date Sampled: **8/31/2018**

QLab Job No.: ME180831-15
Date Received: 8/31/2018
Date Analyzed: 9/1/2018
Date Reported: 9/1/2018

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

Lab Sample No.	ME180831-15(1)			ME180831-15(2)			ME180831-15(3)		
Sample ID	**2423419**			**2423429**			**2423428**		
Sample Location	**B123, B124, B129**			**Auditorium Right**			**Auditorium Left**		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Total Concentration (counts/m³)**	**320 cts/m³**			**350 cts/m³**			**1,200 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)									
Basidiospores (O,I)	23	310	96				11	150	13
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)				26	**350**	**100**	77	**1,000**	**87**
## Cluster-Chain-Loose Spore Profile™					*0% - 0% - 100%*			*36% - 39% - 25%*	
Cluster(s)								*2 cluster(s) of 13, 15 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)									
Alternaria (O,I)									
Cercospora (O)									
Curvularia (O,I)									
Drechslera/Bipolaris-like (O)									
Epicoccum (O)									
Fusarium (O,I)									
Myxomycetes/Smuts/Periconia (O,I)	1	13	4						
Nigrospora (O)									
Pithomyces (O)									
Rusts (O)									
Unknown (O,I)									
Skin Cells Rating	Trace			Low			Low		
Debris Rating	1 (≤ 5%)			1 (≤ 5%)			1 (≤ 5%)		
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.	ME180831-15(4)		
Sample ID	**2423424**		
Sample Location	**OAR**		
Sample Type (Device)	Air (Allergenco-D)		
Air Volume	75 L		
Total Concentration (counts/m³)**	**18,000 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)	15	200	1
Basidiospores (O,I)	1,244	17,000	94
Cladosporium, Group HM (O)	4	53	<1
Aspergillus/Penicillium-like, DOT (O)			
#Cluster-Chain-Loose Spore Profile™			
Cladosporium, Group C (O,I)	42	**560**	**3**
Cladosporium, Group S (I)			
Aspergillus/Penicillium-like (I,O)	10	**130**	**<1**
## Cluster-Chain-Loose Spore Profile™	*100% - 0% - 0%*		
Cluster(s)	*1 cluster(s) of 10 spores*		
2. Indoor Hydrophilic Fungi #	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		
Hyphal fragment (O,I)			
Alternaria (O,I)			
Cercospora (O)			
Curvularia (O,I)	1	13	<1
Drechslera/Bipolaris-like (O)			
Epicoccum (O)			
Fusarium (O,I)			
Myxomycetes/Smuts/Periconia (O,I)	2	27	<1
Nigrospora (O)	1	13	<1
Pithomyces (O)	5	67	<1
Rusts (O)			
Unknown (O,I)	1	13	<1
Skin Cells Rating	Trace		
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.