



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: RFIS
Date Sampled: 11/28/2018

QLab Job No.: ME181128-13
Date Received: 11/28/2018
Date Analyzed: 11/28/2018
Date Reported: 11/28/2018

Reviewed by: WT

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

| Lab Sample No. | ME181128-13(1) | | | ME181128-13(2) | | | ME181128-13(3) | | |
|---------------------------------------|----------------------------|-----------|----|-------------------------------|-----------|-----|----------------------------|-----------|-----|
| Sample ID | 2673188 | | | 2673187 | | | 2673175 | | |
| Sample Location | 8L | | | Elevator Rm | | | 2L | | |
| Sample Type (Device) | Air (Allergenco-D) | | | Air (Allergenco-D) | | | Air (Allergenco-D) | | |
| Air Volume | 75 L | | | 75 L | | | 75 L | | |
| Total Concentration (counts/m³)** | 26 cts/m³ | | | 1,200 cts/m³ | | | 250 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) | | | | | | | | | |
| 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) | | | | 88 | 1,200 | 100 | 19 | 250 | 100 |
| ## Cluster-Chain-Loose Spore Profile™ | | | | 52% - 17% - 31% | | | 0% - 60% - 40% | | |
| Cluster(s) | | | | 2 cluster(s) of 27, 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 | 50 | | | | | | |
| Alternaria (O,I) | | | | | | | | | |
| Cercospora (O) | | | | | | | | | |
| Curvularia (O,I) | | | | | | | | | |
| Drechslera/Bipolaris-like (O) | | | | | | | | | |
| Epicoccum (O) | | | | | | | | | |
| Fusarium (O,I) | | | | | | | | | |
| Myxomycetes/Smuts/Periconia (O,I) | 1 | 13 | 50 | | | | | | |
| Nigrospora (O) | | | | | | | | | |
| Pithomyces (O) | | | | | | | | | |
| Rusts (O) | | | | | | | | | |
| Unknown (O,I) | | | | | | | | | |
| Skin Cells Rating | Low | | | Medium | | | Medium | | |
| Debris Rating | 2 (6 - 25%) | | | 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: RFIS
Date Sampled: 11/28/2018

QLab Job No.: ME181128-13
Date Received: 11/28/2018
Date Analyzed: 11/28/2018
Date Reported: 11/28/2018

| Lab Sample No. | ME181128-13(4) | | | ME181128-13(5) | | | ME181128-13(6) | | |
|---------------------------------------|----------------------------|-----------|----|------------------------------|-----------|---|------------------------------|-----------|---|
| Sample ID | 2673179 | | | 2673184 | | | 2673176 | | |
| Sample Location | OAR 1 | | | 6L | | | 7L | | |
| Sample Type (Device) | Air (Allergenco-D) | | | Air (Allergenco-D) | | | Air (Allergenco-D) | | |
| Air Volume | 75 L | | | 75 L | | | 75 L | | |
| Total Concentration (counts/m³)** | 120 cts/m³ | | | < DL cts/m³ | | | < DL 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) | 4 | 53 | 44 | | | | | | |
| 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) | | | | | | | | | |
| 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) | 5 | 67 | 56 | | | | | | |
| 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) | | | | | | | | | |
| Skin Cells Rating | Trace | | | Trace | | | Trace | | |
| Debris Rating | 2 (6 - 25%) | | | 2 (6 - 25%) | | | 2 (6 - 25%) | | |
| Note | | | | No fungal structure observed | | | 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.