



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com> / bostonlab@emsl.com

EMSL Order: 132400802
Customer ID: EAFI66
Customer PO:
Project ID:

Attention: Peter VonAu
 EFI Global, Inc.
 155 West Street
 Suite 6
 Wilmington, MA 01887
Project: 01407230, PMES, MA 01854

Phone: (978) 688-3736
Fax: (978) 688-5494
Collected Date:
Received Date: 02/09/2024 01:00 PM
Analyzed Date: 02/14/2024 - 02/15/2024

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0001 A01 | | | 132400802-0002 A02 75 | | | 132400802-0003 A03 75 | | |
|--|-----------------------|-----------------|------------|-----------------------------|-----------|------------|-----------------------------|-----------|------------|
| | Field Blank | | | Cafeteria | | | Outdoors | | |
| Spore Types | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | - | - | - | - | - | - | - | - | - |
| Basidiospores | - | - | - | - | - | - | 1 | 40 | 50 |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | 1 | 40 | 100 | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | 1 | 40 | 50 |
| Total Fungi | - | No Trace | - | 1 | 40 | 100 | 2 | 80 | 100 |
| Hypal Fragment | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 0 | - | - | 41 | - | - | 41 | - |
| Analyt. Sensitivity 300x | - | 0* | - | - | 13* | - | - | 13* | - |
| Skin Fragments (1-4) | - | - | - | - | 1 | - | - | 1 | - |
| Fibrous Particulate (1-4) | - | - | - | - | 1 | - | - | 1 | - |
| Background (1-5) | - | - | - | - | 1 | - | - | 1 | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.
 ++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.


 Steve Grise, Laboratory Manager
 or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 02/16/2024 09:34 AM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



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Analyzed Date: 02/14/2024 - 02/15/2024

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0004 A04 75 Main Office, Room 1008 | | | 132400802-0005 A05 75 Gymnasium | | | 132400802-0006 A06 75 Classroom 1063 | | | |
|--|---|------------|------------|--|------------|------------|---|------------|------------|------------|
| | Spore Types | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | 1 | 40 | 100 | 2 | 80 | 100 | 1 | 40 | 100 | |
| Basidiospores | - | - | - | - | - | - | - | - | - | - |
| Bipolaris++ | - | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - | - |
| Total Fungi | 1 | 40 | 100 | 2 | 80 | 100 | 1 | 40 | 100 | |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 41 | - | - | 41 | - | - | 41 | - | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Background (1-5) | - | 1 | - | - | 2 | - | - | 2 | - | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

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Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0007 A07 75 Classroom 1061 | | | 132400802-0008 A08 75 Classroom 1038 | | | 132400802-0009 A09 75 Classroom 1041 | | | |
|--|---|------------|------------|---|------------|------------|---|------------|------------|------------|
| | Spore Types | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | - | - | - | 1 | 40 | 100 | 6 | 200 | 100 | |
| Basidiospores | - | - | - | - | - | - | - | - | - | - |
| Bipolaris++ | - | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | 1 | 40 | 100 | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - | - |
| Total Fungi | 1 | 40 | 100 | 1 | 40 | 100 | 6 | 200 | 100 | |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 41 | - | - | 41 | - | - | 41 | - | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Background (1-5) | - | 1 | - | - | 1 | - | - | 1 | - | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

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| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0010 A10 75 Classroom 1043 | | | 132400802-0011 A11 75 Classroom 1045 | | | 132400802-0012 A12 75 Classroom 1066 | | |
|--|---|-----------|------------|---|-----------|------------|---|-----------|------------|
| | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | - | - | - | 1 | 40 | 100 | 2 | 80 | 100 |
| Basidiospores | 1 | 40 | 100 | - | - | - | - | - | - |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - |
| Total Fungi | 1 | 40 | 100 | 1 | 40 | 100 | 2 | 80 | 100 |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 41 | - | - | 41 | - | - | 41 | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Background (1-5) | - | 1 | - | - | 1 | - | - | 1 | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

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| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0013 A13 75 Classroom 1068 | | | 132400802-0014 A14 75 Classroom 1067 | | | 132400802-0015 A15 75 Classroom 1069 | | | |
|--|---|------------|------------|---|------------|------------|---|------------|------------|------------|
| | Spore Types | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | 1 | 40 | 16.7 | - |
| Aspergillus/Penicillium++ | 2 | 80 | 100 | - | - | - | 6 | 200 | 83.3 | - |
| Basidiospores | - | - | - | - | - | - | - | - | - | - |
| Bipolaris++ | - | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | 1 | 40 | 100 | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - | - |
| Total Fungi | 2 | 80 | 100 | 1 | 40 | 100 | 7 | 240 | 100 | - |
| Hyphal Fragment | 2 | 80 | - | 1 | 40 | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 41 | - | - | 41 | - | - | 41 | - | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Background (1-5) | - | 1 | - | - | 1 | - | - | 1 | - | - |

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++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Steve Grise, Laboratory Manager
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Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 02/16/2024 09:34 AM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com/bostonlab@emsl.com>

EMSL Order: 132400802

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu
EFI Global, Inc.
155 West Street
Suite 6
Wilmington, MA 01887
Project: 01407230, PMES, MA 01854

Phone: (978) 688-3736
Fax: (978) 688-5494
Collected Date:
Received Date: 02/09/2024 01:00 PM
Analyzed Date: 02/14/2024 - 02/15/2024

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0016 A16 75 Classroom 1071 | | | 132400802-0017 A17 75 Classroom 1073 | | | 132400802-0018 A18 75 Classroom 1072 | | | |
|--|---|------------|------------|---|------------|------------|---|--------------------|----------|------------|
| | Spore Types | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | 3 | 100 | 100 | 1 | 40 | 50 | - | - | - | - |
| Basidiospores | - | - | - | 1 | 40 | 50 | - | - | - | - |
| Bipolaris++ | - | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - | - |
| Total Fungi | 3 | 100 | 100 | 2 | 80 | 100 | - | None Detect | - | - |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 41 | - | - | 41 | - | - | 41 | - | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Background (1-5) | - | 2 | - | - | 2 | - | - | 1 | - | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

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Received Date: 02/09/2024 01:00 PM
Analyzed Date: 02/14/2024 - 02/15/2024

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0019 A19 75 Classroom 1074 | | | 132400802-0020 A20 75 Classroom 1075 | | | 132400802-0021 A21 75 Classroom 1076 | | | |
|--|---|------------|------------|---|--------------------|----------|---|------------|------------|------------|
| | Spore Types | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | 1 | 40 | 100 | - | - | - | 2 | 90 | 69.2 | |
| Basidiospores | - | - | - | - | - | - | 1 | 40 | 30.8 | |
| Bipolaris++ | - | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - | - |
| Total Fungi | 1 | 40 | 100 | - | None Detect | - | 3 | 130 | 100 | |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 41 | - | - | 41 | - | - | 43 | - | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Background (1-5) | - | 2 | - | - | 1 | - | - | 1 | - | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

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Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 02/16/2024 09:34 AM

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Project: 01407230, PMES, MA 01854

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Collected Date:
Received Date: 02/09/2024 01:00 PM
Analyzed Date: 02/14/2024 - 02/15/2024

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0022 | | | 132400802-0023 | | | 132400802-0024 | | |
|--|----------------|-----------|------------|----------------|------------|------------|----------------|-----------|------------|
| | A22 | | | A23 | | | A24 | | |
| | 75 | | | 75 | | | 75 | | |
| | Classroom 1077 | | | Classroom 1078 | | | Classroom 1079 | | |
| Spore Types | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | - | - | - | 6 | 300 | 100 | 1 | 40 | 50 |
| Basidiospores | 1 | 40 | 100 | - | - | - | 1 | 40 | 50 |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - |
| Total Fungi | 1 | 40 | 100 | 6 | 300 | 100 | 2 | 80 | 100 |
| Hyphal Fragment | - | - | - | 1 | 40 | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 43 | - | - | 43 | - | - | 43 | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Background (1-5) | - | 1 | - | - | 1 | - | - | 1 | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

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Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0025 A25 75 Classroom 1081 | | | 132400802-0026 A26 75 Classroom 1082, SPED | | | 132400802-0027 A27 75 Classroom, Pre-K | | | |
|--|---|------------|------------|---|------------|------------|---|------------|------------|------------|
| | Spore Types | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | 1 | 40 | 50 | - | - | - | 1 | 40 | 100 | - |
| Basidiospores | 1 | 40 | 50 | - | - | - | - | - | - | - |
| Bipolaris++ | - | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | 1 | 40 | 100 | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - | - |
| Total Fungi | 2 | 80 | 100 | 1 | 40 | 100 | 1 | 40 | 100 | 100 |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 43 | - | - | 43 | - | - | 43 | - | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Background (1-5) | - | 1 | - | - | 1 | - | - | 1 | - | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.
 ++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.


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Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0028 A28 75 Outdoors | | | 132400802-0029 A29 Field Blank | | | 132400802-0030 A30 75 Classroom 1097, Music | | |
|--|---|-----------|------------|--------------------------------------|-----------------|------------|--|------------|------------|
| | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Spore Types | | | | | | | | | |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | - | - | - | - | - | - | - | - | - |
| Basidiospores | 1 | 40 | 100 | - | - | - | 2 | 90 | 50 |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | 2 | 90 | 50 |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - |
| Total Fungi | 1 | 40 | 100 | - | No Trace | - | 4 | 180 | 100 |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 43 | - | - | 0 | - | - | 43 | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 0* | - | - | 13* | - |
| Skin Fragments (1-4) | - | - | - | - | - | - | - | 1 | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | - | - | - | 1 | - |
| Background (1-5) | - | 1 | - | - | - | - | - | 2 | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.
 ++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.


 Steve Grise, Laboratory Manager
 or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 02/16/2024 09:34 AM

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EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com/bostonlab@emsl.com>

EMSL Order: 132400802

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu
EFI Global, Inc.
155 West Street
Suite 6
Wilmington, MA 01887
Project: 01407230, PMES, MA 01854

Phone: (978) 688-3736
Fax: (978) 688-5494
Collected Date:
Received Date: 02/09/2024 01:00 PM
Analyzed Date: 02/14/2024 - 02/15/2024

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0031 A31 75 Classroom 1093, Art | | | 132400802-0032 A32 75 Classroom 1108 | | | 132400802-0033 A33 75 Kitchen | | | |
|--|--|------------|------------|---|------------|------------|--|------------|------------|------------|
| | Spore Types | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | 2 | 90 | 50 | - | - | - | - | - | - | - |
| Basidiospores | - | - | - | 1 | 40 | 23.5 | - | - | - | - |
| Bipolaris++ | - | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | 2 | 90 | 50 | 2 | 90 | 52.9 | 1 | 40 | 100 | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | 1 | 40 | 23.5 | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - | - |
| Total Fungi | 4 | 180 | 100 | 4 | 170 | 100 | 1 | 40 | 100 | 100 |
| Hyphal Fragment | - | - | - | 1 | 40 | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 43 | - | - | 43 | - | - | 43 | - | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Background (1-5) | - | 1 | - | - | 2 | - | - | 2 | - | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Steve Grise, Laboratory Manager
or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 02/16/2024 09:34 AM

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5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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Phone: (978) 688-3736
Fax: (978) 688-5494
Collected Date:
Received Date: 02/09/2024 01:00 PM
Analyzed Date: 02/14/2024 - 02/15/2024

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0034 A34 75 Library Room 2018 | | | 132400802-0035 A35 75 Classroom 2005 | | | 132400802-0036 A36 75 Classroom 2003 | | | |
|--|--|------------|------------|---|------------|------------|---|------------|------------|------------|
| | Spore Types | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | - | - | - | 2 | 90 | 40.9 | - | - | - | - |
| Basidiospores | 1 | 40 | 100 | 2 | 90 | 40.9 | 1 | 40 | 100 | - |
| Bipolaris++ | - | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | 1 | 40 | 18.2 | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - | - |
| Total Fungi | 1 | 40 | 100 | 5 | 220 | 100 | 1 | 40 | 100 | - |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 43 | - | - | 43 | - | - | 43 | - | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Background (1-5) | - | 2 | - | - | 2 | - | - | 1 | - | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Steve Grise, Laboratory Manager
or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 02/16/2024 09:34 AM

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5 Constitution Way, Unit A Woburn, MA 01801

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Collected Date:
Received Date: 02/09/2024 01:00 PM
Analyzed Date: 02/14/2024 - 02/15/2024

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0037 A37 75 Classroom 2004 | | | 132400802-0038 A38 75 Classroom 2002 | | | 132400802-0039 A39 75 Classroom 2001 | | | |
|--|---|------------|------------|---|------------|------------|---|------------|------------|------------|
| | Spore Types | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | - | - | - | 2 | 90 | 100 | 1 | 40 | 50 | |
| Basidiospores | 1 | 40 | 100 | - | - | - | 1 | 40 | 50 | |
| Bipolaris++ | - | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - | - |
| Total Fungi | 1 | 40 | 100 | 2 | 90 | 100 | 2 | 80 | 100 | |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 43 | - | - | 43 | - | - | 43 | - | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Background (1-5) | - | 2 | - | - | 2 | - | - | 2 | - | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

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Collected Date:
Received Date: 02/09/2024 01:00 PM
Analyzed Date: 02/14/2024 - 02/15/2024

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0040 | | | 132400802-0041 | | | 132400802-0042 | | |
|--|----------------------|------------|------------|---------------------|-----------|------------|------------------------|-----------|------------|
| | A40 | | | A41 | | | A42 | | |
| | 75 | | | 75 | | | 75 | | |
| | Room 2019, Teacher's | | | Room 2028, Testings | | | Room 2027, Small group | | |
| Spore Types | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | - | - | - | 2 | 80 | 100 | 2 | 80 | 100 |
| Basidiospores | 1 | 40 | 33.3 | - | - | - | - | - | - |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | 1 | 40 | 33.3 | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | 1 | 40 | 33.3 | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - |
| Total Fungi | 3 | 120 | 100 | 2 | 80 | 100 | 2 | 80 | 100 |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 43 | - | - | 41 | - | - | 41 | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Background (1-5) | - | 2 | - | - | 2 | - | - | 1 | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.
 ++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.


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Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0043 | | | 132400802-0044 | | | 132400802-0045 | | |
|--|------------------------|--------------------|------------|----------------|-----------|------------|----------------|-----------|------------|
| | A43 | | | A44 | | | A45 | | |
| | 75 | | | 75 | | | 75 | | |
| | Room 2012, Small group | | | Room 2016 | | | Room 2017A | | |
| Spore Types | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | - | - | - | 1 | 40 | 50 | 1 | 40 | 100 |
| Basidiospores | - | - | - | - | - | - | - | - | - |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | 1 | 40 | 50 | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - |
| Total Fungi | - | None Detect | - | 2 | 80 | 100 | 1 | 40 | 100 |
| Hyphal Fragment | 1 | 40 | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 41 | - | - | 41 | - | - | 41 | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Background (1-5) | - | 1 | - | - | 1 | - | - | 1 | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Steve Grise, Laboratory Manager
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Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 02/16/2024 09:34 AM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com> / bostonlab@emsl.com

EMSL Order: 132400802
Customer ID: EAFI66
Customer PO:
Project ID:

Attention: Peter VonAu
 EFI Global, Inc.
 155 West Street
 Suite 6
 Wilmington, MA 01887
Project: 01407230, PMES, MA 01854

Phone: (978) 688-3736
Fax: (978) 688-5494
Collected Date:
Received Date: 02/09/2024 01:00 PM
Analyzed Date: 02/14/2024 - 02/15/2024

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0046 A46 75 Room 1054 | | | 132400802-0047 A47 75 Room 1016 | | | 132400802-0048 A48 75 Room 1018 | | | |
|--|--|------------|------------|--|------------|------------|--|------------|------------|------------|
| | Spore Types | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | 1 | 40 | 100 | 1 | 40 | 100 | - | - | - | - |
| Basidiospores | - | - | - | - | - | - | 1 | 40 | 50 | - |
| Bipolaris++ | - | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | 1 | 40 | 50 | - |
| Curvularia | - | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - | - |
| Total Fungi | 1 | 40 | 100 | 1 | 40 | 100 | 2 | 80 | 100 | 100 |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 41 | - | - | 41 | - | - | 41 | - | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Background (1-5) | - | 1 | - | - | 1 | - | - | 1 | - | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.
 ++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.


 Steve Grise, Laboratory Manager
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Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 02/16/2024 09:34 AM

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Tel/Fax: (781) 933-8411 / (781) 933-8412

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Customer ID: EAFI66

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Attention: Peter VonAu
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Suite 6
Wilmington, MA 01887
Project: 01407230, PMES, MA 01854

Phone: (978) 688-3736
Fax: (978) 688-5494
Collected Date:
Received Date: 02/09/2024 01:00 PM
Analyzed Date: 02/14/2024 - 02/15/2024

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0049 A49 75 Outdoors | | | 132400802-0050 A50 75 Room 1020 | | | 132400802-0051 A51 75 Room 1022 | | | |
|--|---|------------|------------|--|------------|------------|--|--------------------|----------|------------|
| | Spore Types | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - | - |
| Ascospores | 1 | 40 | 33.3 | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | 2 | 80 | 66.7 | 2 | 80 | 100 | - | - | - | - |
| Basidiospores | - | - | - | - | - | - | - | - | - | - |
| Bipolaris++ | - | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - | - |
| Total Fungi | 3 | 120 | 100 | 2 | 80 | 100 | - | None Detect | - | - |
| Hyphal Fragment | - | - | - | 1 | 40 | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 41 | - | - | 41 | - | - | 41 | - | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - | - |
| Background (1-5) | - | 1 | - | - | 1 | - | - | 1 | - | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

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or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 02/16/2024 09:34 AM

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5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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Project: 01407230, PMES, MA 01854

Phone: (978) 688-3736
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Collected Date:
Received Date: 02/09/2024 01:00 PM
Analyzed Date: 02/14/2024 - 02/15/2024

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location: | 132400802-0052 | | | 132400802-0053 | | | 132400802-0054 | | |
|--|----------------|-----------|------------|----------------|------------|------------|----------------|-----------|------------|
| | A52 | | | A53 | | | A54 | | |
| | 75 | | | 75 | | | 75 | | |
| | Room 1014 | | | Room 1015 | | | Room 1012 | | |
| Spore Types | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium++ | 1 | 40 | 100 | 2 | 80 | 66.7 | 1 | 40 | 50 |
| Basidiospores | - | - | - | - | - | - | 1 | 40 | 50 |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium++ | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | 1 | 40 | 33.3 | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - |
| Fusarium++ | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Torula++ | - | - | - | - | - | - | - | - | - |
| Total Fungi | 1 | 40 | 100 | 3 | 120 | 100 | 2 | 80 | 100 |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 41 | - | - | 41 | - | - | 41 | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Background (1-5) | - | 2 | - | - | 2 | - | - | 1 | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Steve Grise, Laboratory Manager
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Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

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| |
|------------------------------|
| EMSL Order: 132400802 |
| Customer ID: EAFI66 |
| Customer PO: |
| Project ID: |

| | |
|---|--|
| Attention: Peter VonAu EFI Global, Inc. 155 West Street Suite 6 Wilmington, MA 01887 Project: 01407230, PMES, MA 01854 | Phone: (978) 688-3736 Fax: (978) 688-5494 Collected Date: Received Date: 02/09/2024 01:00 PM Analyzed Date: 02/14/2024 - 02/15/2024 |
|---|--|

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| | | | |
|---------------------------|-------------------|-----------------|-------------------|
| Lab Sample Number: | 132400802-0055 | | |
| Client Sample ID: | A55 | | |
| Volume (L): | 75 | | |
| Sample Location: | Room 1019 | | |
| Spore Types | Raw Count† | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - |
| Ascospores | - | - | - |
| Aspergillus/Penicillium++ | 1 | 40 | 100 |
| Basidiospores | - | - | - |
| Bipolaris++ | - | - | - |
| Chaetomium++ | - | - | - |
| Cladosporium | - | - | - |
| Curvularia | - | - | - |
| Epicoccum | - | - | - |
| Fusarium++ | - | - | - |
| Ganoderma | - | - | - |
| Myxomycetes++ | - | - | - |
| Pithomyces++ | - | - | - |
| Rust | - | - | - |
| Scopulariopsis/Microascus | - | - | - |
| Stachybotrys/Memnoniella | - | - | - |
| Unidentifiable Spores | - | - | - |
| Zygomycetes | - | - | - |
| Torula++ | - | - | - |
| Total Fungi | 1 | 40 | 100 |
| Hyphal Fragment | - | - | - |
| Insect Fragment | - | - | - |
| Pollen | - | - | - |
| Analyt. Sensitivity 600x | - | 41 | - |
| Analyt. Sensitivity 300x | - | 13* | - |
| Skin Fragments (1-4) | - | 1 | - |
| Fibrous Particulate (1-4) | - | 1 | - |
| Background (1-5) | - | 1 | - |

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.



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