



# EMSL Analytical, Inc.

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EMSL Order: 262208716

Customer ID: MBAD34

Customer PO:

Project ID:

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**Collected Date:**

**Received Date:** 10/28/2022 10:40 AM

**Analyzed Date:** 10/28/2022

**Project:** BEECHER ELEMENTARY SCHOOL

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

| Lab Sample Number:<br>Client Sample ID:<br>Volume (L):<br>Sample Location: | 262208716-0001 |                      |            | 262208716-0002              |                      |            |
|--|----------------|----------------------|------------|-----------------------------|----------------------|------------|
|  | Raw Count      | Count/M <sup>3</sup> | % of Total | Raw Count                   | Count/M <sup>3</sup> | % of Total |
| M01<br>75<br>OUTSIDE RM  |                |                      |            | M02<br>75<br>CENTER ROOM 45 |                      |            |
| <b>Spore Types</b>   |                |                      |            |                             |                      |            |
| Alternaria (Ulocladium)  | 7              | 300                  | 0.9        | -                           | -                    | -          |
| Ascospores   | 12             | 520                  | 1.5        | 3                           | 100                  | 4.6        |
| Aspergillus/Penicillium  | 385            | 16800                | 47.7       | 2                           | 90                   | 4.1        |
| Basidiospores  | 283            | 12400                | 35.2       | 41                          | 1800                 | 82.9       |
| Bipolaris++  | -              | -                    | -          | -                           | -                    | -          |
| Chaetomium++   | 1*             | 10*                  | 0          | -                           | -                    | -          |
| Cladosporium   | 111            | 4840                 | 13.7       | 2                           | 90                   | 4.1        |
| Curvularia   | -              | -                    | -          | -                           | -                    | -          |
| Epicoccum  | 2              | 90                   | 0.3        | -                           | -                    | -          |
| Fusarium++   | -              | -                    | -          | -                           | -                    | -          |
| Ganoderma  | -              | -                    | -          | -                           | -                    | -          |
| Myxomycetes++  | 1              | 40                   | 0.1        | -                           | -                    | -          |
| Pithomyces++   | 1              | 40                   | 0.1        | -                           | -                    | -          |
| Rust   | 2              | 90                   | 0.3        | -                           | -                    | -          |
| Scopulariopsis/Microascus  | -              | -                    | -          | -                           | -                    | -          |
| Stachybotrys/Memnoniella   | -              | -                    | -          | -                           | -                    | -          |
| Unidentifiable Spores  | 3              | 100                  | 0.3        | 2                           | 90                   | 4.1        |
| Zygomycetes  | -              | -                    | -          | -                           | -                    | -          |
| Nigrospora   | 1*             | 10*                  | 0          | -                           | -                    | -          |
| <b>Total Fungi</b>   | <b>809</b>     | <b>35240</b>         | <b>100</b> | <b>50</b>                   | <b>2170</b>          | <b>100</b> |
| Hyphal Fragment  | 12             | 520                  | -          | -                           | -                    | -          |
| Insect Fragment  | 2              | 90                   | -          | -                           | -                    | -          |
| Pollen   | 11             | 480                  | -          | -                           | -                    | -          |
| Analyt. Sensitivity 600x   | -              | 44                   | -          | -                           | 44                   | -          |
| Analyt. Sensitivity 300x   | -              | 13*                  | -          | -                           | 13*                  | -          |
| Skin Fragments (1-4)   | -              | 3                    | -          | -                           | 3                    | -          |
| Fibrous Particulate (1-4)  | -              | 2                    | -          | -                           | 1                    | -          |
| Background (1-5)   | -              | 3                    | -          | -                           | 1                    | -          |

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

Andrei Poluchowicz, Microbiology Technical Manager  
or other Approved Signatory

No discernable field blank was submitted with this group of samples.

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. \*\*\* Denotes particles found at 300X. \* Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. Skin & Fibrous ratings: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-100%) of the background particles.

Samples analyzed by EMSL Analytical, Inc. Hillside, IL AIHA-LAP, LLC-EMLAP Accredited #102992

Initial report from: 10/28/2022 04:49 PM

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