

# Fungal Analysis by PCR

Sample Company  
Sample Contact Person  
  
000 Sample Street, Suite 000  
Sample City, CA 00000-0000

**Client ID:** 0000  
**Report Number:** F000000  
**SGSFL Job ID:** 0000-00  
**Date Received:** 00/00/00  
**Date Analyzed:** 00/00/00  
**Date Printed:** 00/00/00  
**First Reported:** 00/00/00

**Sample Type:** Bulk Dust  
**Analysis:** PCR Environmental Relative Moldiness Index Panel  
**Job ID / Site:** Sample Site

|                   |                 |
|-------------------|-----------------|
| <b>Lab Number</b> | <b>00000000</b> |
| <b>Sample ID</b>  | <b>1</b>        |
| <b>Location</b>   | Location A      |

|                    |          |
|--------------------|----------|
| <b>Sample Date</b> | 00/00/00 |
| <b>Weight/Area</b> | 5.2 mg   |
| <b>Media</b>       |          |

| Group 1                      |               |               |      |                |
|------------------------------|---------------|---------------|------|----------------|
| Organism                     | Sp Eq         | Sp Eq/mg dust | %    | Log Conc       |
| Aspergillus flavus           | 5050          | 970           | 35.2 | 2.9867         |
| Aspergillus fumigatus        | ND            | ND            | -    | -              |
| Aspergillus niger            | 272           | 52            | 1.9  | 1.716          |
| Aspergillus ochraceus        | ND            | ND            | -    | -              |
| Aspergillus penicilloides    | 84            | 16            | 0.6  | 1.2041         |
| Aspergillus restrictus       | ND            | ND            | -    | -              |
| Aspergillus sclerotiorum     | ND            | ND            | -    | -              |
| Aspergillus sydowii          | ND            | ND            | -    | -              |
| Aspergillus unguis           | ND            | ND            | -    | -              |
| Aspergillus veriscolor       | 4200          | 810           | 29.4 | 2.9084         |
| Aureobasidium pullulans      | 197           | 38            | 1.4  | 1.5797         |
| Chaetomium globosum          | 201           | 39            | 1.4  | 1.591          |
| Cladosporium sphaerospermum  | 223           | 43            | 1.6  | 1.6334         |
| Eurotium amstelodami         | 241           | 46            | 1.7  | 1.6627         |
| Paecilomyces varioti         | ND            | ND            | -    | -              |
| Penicillium brevicompactum   | 699           | 130           | 4.9  | 2.1139         |
| Penicillium corylophilum     | 26            | <10           | 0.2  | 0.6989         |
| Penicillium crustosum        | ND            | ND            | -    | -              |
| Penicillium purpurogenum     | ND            | ND            | -    | -              |
| Penicillium spinulosum       | ND            | ND            | -    | -              |
| Penicillium variable         | ND            | ND            | -    | -              |
| Scopulariopsis brevicaulis   | ND            | ND            | -    | -              |
| Scopulariopsis chartarum     | 14            | <10           | 0.1  | 0.4313         |
| Stachybotrys chartarum       | 912           | 180           | 6.4  | 2.2552         |
| Trichoderma viride           | ND            | ND            | -    | -              |
| Wallemia sebi                | 29            | <10           | 0.2  | 0.7481         |
| <b>Total for Both Groups</b> | <b>14,282</b> | <b>2,700</b>  |      |                |
| <b>Sum of Logs</b>           |               |               |      | <b>21.5294</b> |
| <b>LOD</b>                   |               |               |      | <b>0.19</b>    |

| Group 2                         |               |               |     |               |
|---------------------------------|---------------|---------------|-----|---------------|
| Organism                        | Sp Eq         | Sp Eq/mg dust | %   | Log Conc      |
| Acremonium strictum             | ND            | ND            | -   | -             |
| Alternaria alternata            | ND            | ND            | -   | -             |
| Aspergillus ustus               | ND            | ND            | -   | -             |
| Cladosporium cladosporioides I  | 499           | 96            | 3.5 | 1.9822        |
| Cladosporium cladosporioides II | 103           | 20            | 0.7 | 1.301         |
| Cladosporium herbarum           | 23            | <10           | 0.2 | 0.6434        |
| Epicoccum nigrum                | 1080          | 210           | 7.6 | 2.3222        |
| Mucor racemosus                 | 17            | <10           | 0.1 | 0.5185        |
| Penicillium chrysogenum         | 409           | 79            | 2.9 | 1.8976        |
| Rhizopus stolonifer             | <10           | <10           | -   | -             |
| <b>Total for Both Groups</b>    | <b>14,282</b> | <b>2,700</b>  |     |               |
| <b>Sum of Logs</b>              |               |               |     | <b>8.4284</b> |
| <b>LOD</b>                      |               |               |     | <b>0.19</b>   |

| ERMI <sup>SM</sup> Score         |                |
|----------------------------------|----------------|
| <b>GROUP 1</b>                   | <b>21.5294</b> |
| <b>GROUP 2</b>                   | <b>8.4284</b>  |
| <b>ERMI<sup>SM</sup> SCORE +</b> | <b>13.1</b>    |
| <b>LEVEL</b>                     | <b>Level 4</b> |

† ERMI<sup>SM</sup> Score = Group 1 - Group 2

|                 |  |
|-----------------|--|
| <b>Comments</b> |  |
|-----------------|--|

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**Analysis:** PCR Environmental Relative Moldiness Index Panel  
**Job ID / Site:** Sample Site

**Explanations:**  
 ND None Detected

**Notes:**

This test is performed pursuant to licensing arrangements with Roche Molecular Systems, Inc. and Applied Biosystems.

The Environmental Relative Moldiness Index (ERMI<sup>SM</sup>) is a screening tool developed by the USEPA to assist in predicting the relative “mold burden” on a giving home. The ERMI<sup>SM</sup> was developed by screening dust samples from 1096 homes across the United States as part of the 2006 HUD American Healthy Home Survey, and ranking these homes in a RMI (Relative Moldiness Index). The ERMI<sup>SM</sup> score is determined by analyzing dust samples by quantitative PCR for 36 species of mold divided into two groups. Group I is composed of 26 species of molds commonly associated with water damage. Group II is composed of 10 species of common to indoor environments. By comparing the difference in Group I and Group II molds, an ERMI<sup>SM</sup> score is generated which can then be compared to the nationwide RMI.

Several organizations, including: the American Conference of Governmental Industrial Hygienists (ACGIH); the American Industrial Hygiene Association (AIHA); the Indoor Air Quality Association (IAQA); the United States Environmental Protection Agency (USEPA); the Centers for Disease Control (CDC), as well as the California Department of Health Services (CADHS), have all published guidelines for assessment and interpretation of mold resulting from water intrusion in buildings.

| ERMI <sup>SM</sup> Score | Level or Risk | Likelihood of Mold Problem in Home |
|--------------------------|---------------|------------------------------------|
| -10 to -4                | Level 1       | Lowest                             |
| -4 to 0                  | Level 2       | Lower                              |
| 0 to 5                   | Level 3       | Moderate                           |
| FALI reports             | Level 4       | High                               |

**Microbiology Laboratory Supervisor, Hayward Laboratory**

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