A-Tech Consulting, Inc.

**1640 N. Batavia Street, Orange, CA 92867**
**Phone (714) 434-6360 Fax (714) 221-6360**
**www.atechinc.net**

# LIMITED INDOOR AIR QUALITY ASSESSMENT

## Valleydale Elementary School

700 South Lark Ellen Avenue

City of Azusa
County of Los Angeles
State of California

Project Number: Atch-211881

August 13, 2021

PREPARED FOR:

**Azusa Unified School District**

PRIVILEGED & CONFIDENTIAL

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**Cover**

**INDOOR AIR QUALITY**

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Atch-211881
Limited Indoor Air Quality Assessment
700 South Lark Ellen Avenue
Azusa, California 91702

August 13, 2021

Azusa Unified School District
546 South Citrus Avenue
Azusa, California 91702

Attn: Mr. Brian Allen

Re: Valleydale Elementary School
700 South Lark Ellen Avenue, Various Areas
Azusa, California 91702

Pursuant to your request, A-Tech Consulting, Inc. has completed a Limited Indoor Air Quality (IAQ) Assessment in various areas of Valleydale Elementary School located at 700 South Lark Avenue, in Azusa, California. The following report summarizes the findings of this assessment.

## 1.0 BACKGROUND

On June 19, 2021, August 09, 2021 and August 10, 2021, Industrial Hygiene Technician Krizia Kolakowski, under the supervision of Certified Industrial Hygienist (CIH) Roosevelt Ward with A-Tech Consulting, Inc. performed a Limited Indoor Air Quality (IAQ) Assessment in various areas of the subject site. This assessment was performed due to concerns raised by occupants of Valleydale Elementary School regarding poor indoor air quality. These concerns were limited to the thirty-one (31) areas surveyed during this assessment: Classrooms 1 through 25, Classrooms K-1 through K-3, Room VI-100, the Computer Lab and the Library.

At the time of the assessment, the areas were inspected and samples were collected to assess a) inside temperature and relative humidity as indicators of comfort, b) carbon dioxide levels as indicator of air flow, c) carbon monoxide, d) HVAC filtration efficiency and e) fungal spore exposure in the work areas to determine the IAQ impact in the various areas of concern. This IAQ assessment was performed in accordance with the scope of services authorized by Mr. Brian Allen with the Azusa Unified School District.

## 2.0 METHODOLOGY

As a precautionary measure, sampling of relative humidity (RH), temperature (T), carbon dioxide ($CO_2$), carbon monoxide (CO), particle distribution and airborne fungal distribution was performed at the subject site to ensure that levels are within acceptable parameters for occupancy.

Continuous datalogged sampling was performed at stationary locations at approximate breathing zone height. The following table details the parameters monitored, sampling intervals and sampling durations of the two (2) continuous datalogging units used in this assessment:

| Unit | Parameter(s) | Interval (seconds) | Sampling Duration (min) |
|---|---|---|---|
| TSI 7545 IAQCalc | Temperature<br>Relative Humidity<br>$CO_2$<br>CO | 5 | 10 |
| ThermoScientific pDR1500 | Aerosols | 60 | 10 |

In addition, exterior continuous measurements were taken by each instrument upwind of the building or by HVAC exterior air intakes, for comparison.

### 2.1 Carbon Dioxide ($CO_2$), Carbon Monoxide (CO), Air Temperature and Relative Humidity

Carbon dioxide ($CO_2$), carbon monoxide (CO), air temperature and relative humidity were recorded using a TSI Model 7545 IAQCalc unit. Calibration on the IAQCalc unit was performed on December 21, 2020. Measurement ranges, accuracy and resolution for $CO_2$, CO, air temperature and relative humidity can be found in the following table.

| Parameter | Range | Accuracy | Resolution |
|---|---|---|---|
| Carbon Dioxide ($CO_2$) | 0 to 5,000 ppm | ±3% or ±50ppm (whichever is greater) | 1 ppm |
| Carbon Monoxide (CO) | 0 to 500 ppm | ±3% or ±3ppm (whichever is greater) | 0.1 ppm |
| Air Temperature | 32 to 140°F | ±1.0°F | 0.1° F |
| Relative Humidity | 5.0 to 95.0% | ±3.0% | 0.1% |

The results can be found on the attached tables. Carbon dioxide and carbon monoxide levels are reported in parts per million (ppm), air temperature in degrees Fahrenheit (°F) and relative humidity in percentages (%).

## 2.2 Aerosol Particle Concentration

Aerosol particle (respirable dust <4.0 µm in diameter) concentration was measured using a ThermoScientific pDR-1500 unit, along with an aluminum respirable dust cyclone. Calibration on the pDR-1500 unit was performed on December 7, 2020. Measurement range, accuracy and resolution for the aerosol monitor of the pDR1500 unit can be found in the following table.

| Parameter | Range | Accuracy | Resolution |
|---|---|---|---|
| Aerosol | 0.001 to 400 mg/m$^3$ | ±5% | 0.01 µg/m$^3$ |

The results can be found on the attached tables. Aerosol concentration levels are reported in micrograms per cubic meter (µg/m$^3$).

## 2.3 Non-Viable Mold Air Sampling

Air sampling was performed inside and outside of the subject building to characterize mold spore levels. The air sampling was performed using Air-O-Cell cassettes. High air volume air pump (Buck BioAire™ Bioaerosol sampling pump) was used to pull air through the cassettes for five (interior) to ten (exterior) minutes at flow rates of approximately 15 L/min. The cassette pump air sampling trains were calibrated before and after each use against a rotameter.

The thirty-six (36) air samples were collected and submitted using chain-of-custody procedures to AIH Laboratory located at 2556 W. Woodland Drive, Anaheim, California 92801 for analysis of mold spores. This analytical method gives measured airborne levels of total (non-viable) mold spores in units of spores per cubic meter of air (spores/m$^3$). This laboratory has been certified in environmental microbiology by the Laboratory Accreditation Program administered by the American Industrial Hygiene Association (AIHA) lab code #LAP-203769.

# 3.0 DISCUSSION

## 3.1 Indoor Air Quality

The substances sampled are commonly known indoor air quality contaminants of concern in nonindustrial environments. Currently, there are no regulations pertaining to indoor air quality. However, the limits recommended by ASHRAE (American Society of Heating, Refrigerating, and Air Conditioning Engineers), National Institute for Occupational Safety and Health (NIOSH), Cal-OSHA (California Occupation Safety and Health Administration), Regional Exposure Levels (REL) as established by the California Office of Environmental Health Hazard Assessment (OEHHA), California Ambient Air Quality Standard (CAAQS), Regional Screening Levels (RSLs) as established by the Environmental Protection Agency (EPA) and LEED (Leadership in Energy and Environmental Design) are used for the evaluations of IAQ concerns. Keep in mind, concentrations that are within the recommended limits do not ensure freedom from sensory irritation or from all adverse health effects for all occupants.

3.2 Mold

Currently, there are no regulations or guidelines that quantify acceptable or unacceptable levels of mold spore content in the air or on surfaces for either total mold spore count or mold spore count for individual genre. The current general industry standard of mold content in air samples states that "typically mold levels should be lower indoors than outdoors and similar in diversity of genera". In cases where the exterior samples are abnormally low or high for mold content (typical instances include where a day can be windy, raining or there is snow cover) the Certified Indoor Environmental Consultant (CIEC) reviews each sample analysis by genre and overall mold content and makes final determination of potential mold exposure and activity.

When collecting fungal species and spore counts there are no set exposure limits for the safe number of spores from a particular genus or species. Common practice is to compare the species and spore counts of the air samples collected indoors to those collected outdoors. All indoor air will contain some degree of mold with variations in species and spore counts. For indoor air quality to be considered “normal” the species present in the indoor air should be similar to those found in the exterior ambient air. There are two ways to interpret mold data.

1. The first is to compare the total spores per cubic meter (spores/$m^3$) reported from the interior to the total spores/$m^3$ reported from the exterior. The total interior spore count should not exceed the total exterior spore count concentration by any excessive magnitudes.

2. The second is to compare the concentration of each spore type in exterior air to the indoor air samples. Each spore type should not exceed the exterior result for that genus/species of mold. In buildings without mold problems, the qualitative diversity of interior and exterior airborne fungi should be similar.

If remedial recommendations are provided, they will be based on a combined analysis of data including but not limited to, a review of the air and surface analytical results (as applicable), review of on-site conditions including building use, building history, moisture/water intrusion activity, visible water damage and/or mold conditions, length of water exposure, occupant health related symptoms (as applicable), and any other information obtained during the assessment combined with historical professional experience with similar projects. Fungal spores are present in almost all environments and do not proliferate indoors unless environmental requirements exist. Fungal activity varies by genre, with differing needs for light, dampness, consumables (building materials, food), and temperature. In general, fungi require air, moisture content above 15%, and cellulose-based materials such as wood, glue, paper products (drywall backing), carpet, clothing, etc.

## 4.0 ANALYTICAL RESULTS

4.1 Air Flow and Carbon Dioxide ($CO_2$) Levels

The National Institute for Occupational Safety and Health (NIOSH) has determined that the most common of indoor air quality complaints are related to inadequate ventilation. Building Heating, Ventilation and Air Conditioning (HVAC) systems need to function properly in order to control temperature, humidity, odor, and general air quality. Carbon dioxide levels are an indicator on whether adequate outside air is entering the building because building occupants produce carbon dioxide, water vapor, particulates, biological aerosols, and other contaminants during metabolic activities. $CO_2$ concentrations increase as a result of human occupancy and the lower the amount of outside air entering the room, the higher the $CO_2$ levels indoors.

The American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc. (ASHRAE) Standard 62.1-2016: Ventilation for Acceptable Indoor Air Quality recommends that indoor $CO_2$ concentrations no greater than 700 parts per million (ppm) above exterior $CO_2$ concentrations will satisfy a substantial majority (about 80%) of occupants (assuming exterior supply rate of 15 cfm/person). Thus, to determine if $CO_2$ levels are a concern, a $CO_2$ differential is calculated by subtracting the average interior $CO_2$ concentration from the exterior $CO_2$ concentration for each inspected area of concern.

For all surveyed interior areas of concern, the average indoor carbon dioxide ($CO_2$) levels **did not exceed** the carbon dioxide concentration of the exterior control sample by more than **700 ppm**. This indicates that indoor air quality concerns related to carbon dioxide are unlikely to exist in the areas inspected/tested. Please refer to the attached table (Appendix A) for detailed information on the sample results.

### 4.2 Air Temperature

Based on the experience of A-Tech Consulting, Inc., the air temperatures perceived as comfortable by most persons in interior environments and recommended by ASHRAE (Standard 55-2017) for occupant comfort, range between 67˚ and 82˚F.

In two (2) of the thirty-one (31) interior areas of concern surveyed during this assessment, the average air temperature recorded **was outside** the ASHRAE recommended comfort ranges. Based on the general guidelines of the ASHRAE Standard 55, which assumes typical conditions for types of clothing, air movement, radiant heat and other complex factors, the temperatures recorded in the following areas of concern were outside recommended ranges:

*Continuous Temperature Monitoring Measurements*:

| Sample Number | Sample Location | Average Temperature (°F) |
|---|---|---|
| 211881-I-0006 | Library | 65.8 |
| 211881-I-0034 | Classroom 22* | 83.4 |

*Note: At the time of the assessment, A-Tech attempted but was unable to turn on the AC unit in both Classrooms 22 and 4.

Average air temperatures recorded for the remaining interior areas of concern (including Classroom 4) **were within** the ASHRAE recommended comfort ranges. Please refer to the attached table (Appendix A) for detailed information on the sample results.

### 4.3 Relative Humidity

For all surveyed interior areas of concern, recorded average relative humidity levels **were within** the 20 - 65 percent relative humidity range recommended by ASHRAE (Standard 62.1-2016) for occupant comfort. This indicates that indoor air quality concerns related to humidity are unlikely to exist in the areas inspected/tested. Please refer to the attached table (Appendix A) for detailed information on the sample results. Note that A-Tech Consulting, Inc. recommends that the relative humidity in buildings not exceed 50 percent in order to limit the potential for fungal growth.

4.4 Airborne Toxic, Flammable and Combustion Product Measurements (CO)

Carbon Monoxide is an indicator of a combustion by-product and is measured to confirm that no combustion sources are contained within, or are immediately adjacent to, the facility. It is frequently associated with headaches. Notable combustion sources include natural gas-fired furnaces, boilers, water heaters, cooking stoves or unvented combustion appliances as well as vehicular traffic, including all types of fossil-fueled industrial trucks. Depending on fuel sources present in interior locations, levels of carbon monoxide are normally less than exterior levels, unless a significant interior source exists. The Cal-OSHA 8-hour time weighted average Permissible Exposure Limit (PEL) for carbon monoxide is **25 ppm**. The OEHHA Regional Exposure Level (REL) for carbon monoxide is 31.2 ppm.

For all surveyed interior areas of concern, carbon monoxide was not detected, or was detected at low levels. These levels are **below** the Cal-OSHA PEL of **25 ppm** (8-hour time weighted average) and are less than common indoor levels (<4 ppm). This indicates that indoor air quality concerns related to carbon monoxide are unlikely to exist in the areas inspected/tested. Please refer to the attached table (Appendix A) for detailed information on the sample results.

4.5 Airborne Particle Concentration

A mass concentration aerosol monitor was used to determine the air quality by quantifying the concentration of particles in the air. Inhalable airborne particulate matter (PM2.5) is defined by the EPA as fine particulate matter with aerodynamic diameters of 2.5µm or smaller. Ultrafine Particles (particles with aerodynamic diameters less than 1 µm) are the result of combustion by-products or chemical reactions, which can help indicate the presence of a substance or its source. Though there is no standard for airborne ultra-fine particles, it is expected to find lower amounts of particles interior versus exterior, due to the Heating Ventilation and Air Conditioning (HVAC) filtering mechanism.

There are currently no Federal government standards for PM2.5 in indoor air environments. However, the Cal-OSHA 8-Hour Time Weighted Average Permissible Exposure Limits for total dust and the respirable fraction of total dust are 10 $mg/m^3$ and 5 $mg/m^3$ respectively.

For all surveyed interior areas of concern, the results of the continuous sampling indicated that average respirable particle concentrations **were lower** than 5 $mg/m^3$ (5,000 $\mu g/m^3$), indicating an efficient HVAC filtering system. Please refer to the attached table (Appendix B) for detailed information on the sample results.

4.6 Non-Viable Mold Air Sampling

Results for fungal air sampling are reported as spores per cubic meter ($spores/m^3$), per industrial genre is identified. The individual results are then totaled into total spores per cubic meter ($spores/m^3$). To determine if mold proliferation exists, counts of indicator spores are compared to counts present in the outdoor, exterior environments.

A total of thirty-six (36) mold air samples were obtained during this assessment. It was determined that the interior samples contained low spore content, the levels of which **were below** the control (exterior) comparison sample. These results indicate that a microbial hazard does not exist in the areas inspected/tested. Please refer to the attached Mold Air Sample Summary table (Appendix C) for detailed information on the sample results.

## 5.0 CONCLUSIONS

Based on this assessment and analytical data, it is A-Tech Consulting, Inc.'s professional opinion at the time of this assessment that is an area of improvement in air quality in the assessed survey site.

*Air Temperature*

Interior air temperatures **were outside** the American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE) standard recommended comfort ranges in the following area of concern:

- Library
- Classroom 22

Based on this assessment and analytical data, it is A-Tech Consulting, Inc.'s professional opinion that at the time of the assessment, all remaining parameters sampled for indoor air quality were below or within acceptable limits. Following are the conclusions for these parameters:

- Relative humidity levels **were within** the recommended American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE) standard recommended range.

- Elevated levels of carbon monoxide **were not** detected by the continuous monitoring instrument utilized during this assessment.

- Carbon dioxide concentrations **were within** the recommended ranges, based on building occupancy.

- Particulate levels monitored indicate concentrations **less than** typical ambient exterior concentrations, and **less than** comparable Environmental Exposure Limits or Occupation Exposure Limits.

- When compared to the maximum exterior control sample, the lab results indicate total airborne fungal spore counts detected indoor **were lower** than exterior counts and are considered indicative of a "normal indoor fungal ecology". Airborne levels of mold spores **were not elevated** in the area tested at this time.

## 6.0 RECOMMENDATIONS

Based on the conditions at the time of the inspection and the analytical results, A-Tech submits the following recommendations for preventing and minimizing indoor air quality problems in the surveyed areas of concern:

1. In the area(s) of concern where indoor air temperature was outside of ASHRAE recommended comfort ranges:
    a. Ensure that temperature control is in the range of 67-82˚F.
    b. Make repairs to the AC unit in Classrooms 4 and 22 so that they are operational once more.

If occupant concerns about indoor air quality persist, then it is recommended to increase the ventilation within the areas of concern. The HVAC systems that service the areas of concern should be regularly maintained and inspected to reduce the risk of air quality concerns. It is also recommended to check the HVAC filters to ensure that they are properly maintained and changed out according to the appropriate preventative maintenance schedule.

## 7.0 DEFINTIONS

A) AIHA – The American Industrial Hygiene Association is a non-profit organization that works to provide resources and information to occupational health professionals to better protect worker health.

B) ASHRAE – The American Society of Heating and Air-Conditioning Engineers is a global professional association seeking to advance heating, ventilation, air conditioning and refrigeration systems design and construction.

C) Bioaerosols – A general term for particles of biological origins such as microbes, airborne organisms, and/or viable pathogenic aerosols.

D) Cal-OSHA – The Division of Occupational Safety and Health (DOSH), better known as Cal-OSHA, protects and improves the health and safety of working men and women in California.

E) EPA – The Environmental Protection Agency is an independent agency of the United States federal government for environmental protection.

F) HVAC – refers to the different systems such as heating, ventilation and air conditioning which is used for moving air between indoor and exterior areas, along with heating and cooling both residential and commercial buildings.

G) Indoor Air Quality Pollutants – refers to the air quality within and around building and structures, especially as it relates to the health and comfort of building occupants. Some of the common pollutants are carbon monoxide, formaldehyde, indoor particulate matter, volatile organic compounds, VOCs, radon, and biological contaminants such as dust, mites, and pollen.

H) Optical Microscopy – Techniques used to magnify images of samples using visible light, often paired with illumination of the sample with polarized and reflected light.

I) Particulate Matter (PM10 and PM 2.5) – PM10 is particulate matter 10 micrometers or less in diameter, PM 2.5 is particulate matter of 2.5 micrometers or less in diameter.

J) Relative Humidity – The ratio of the amount of water vapor actually present in the air to the greatest amount possible at the same temperature.

K) Volatile Organic Compounds (VOCs) – Emitted gasses from certain solids or liquids. VOCs include a variety of chemicals, some which may have short -and long-term adverse health effects.

## 8.0 LIMITATIONS

Keep in mind, the conclusions presented in this report are professional opinions based solely upon visual observations at the site and direct reading measurements, for the timeframe tested. They are intended exclusively for the purpose outlined herein, and for the site location and project indicated.

This report is intended for the sole use of the contracted client. The use or re-use of this document or the findings, conclusion or recommendations presented herein, by any other party or parties, is at the sole risk of said user.

Recognizing that even the most comprehensive inspection may fail to detect IAQ concerns at a particular site, this study was not intended to identify all potential IAQ pollutants present in the building or at the site for such reasons as (1) the possible existence of buried, covered and inaccessible areas and features; and (2) the limited number and type of samples collected.

No guarantee is expressed or implied that all IAQ concerns have been identified. A-Tech Consulting, Inc. assumes no responsibility for the identification of suspect and potential IAQ pollutants, which are concealed and/or inaccessible (i.e. locked rooms, etc.).

Services performed by A-Tech Consulting, Inc. were performed in a manner consistent with that of the care and skill ordinarily and currently exercised by members of the same profession that even the most comprehensive Scope of Services might fail to detect environmental liabilities on a particular site. Therefore, A-Tech Consulting, Inc. cannot act as insurers and cannot "certify" that a site is free of IAQ pollutant concentrations.

No expressed or implied representation or warranty is included or intended in our reports, except that our services were performed, within the limits prescribed by the scope of services, with the customary thoroughness and competence of our profession.

Information and opinions presented herein apply to the existing and reasonable foreseeable site conditions at the time of our investigation. They cannot necessarily apply to site changes of which this office is unaware and has not had the opportunity to review.

Changes in the conditions of this property may occur with time due to natural processes or works of man on the subject property or on adjacent properties. Changes in applicable standards may also occur as a result of legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

A-Tech Consulting, Inc. trusts that the information presented herein provides the data you require. Should you have any questions or comments, please contact A-Tech Consulting, Inc.

Respectfully submitted,

A-TECH CONSULTING, INC.

Roosevelt Ward, CIH, CSP, QISP

CIH 11208 CP

A-Tech Consulting, Inc.

# Continuous Air Temperature, Humidity, Carbon Dioxide and Carbon Monoxide Monitoring Measurements (TSI 7545 IAQCalc)

**Client Name:** Azusa Unified School District **A-Tech Project Number:** 211881

**Location:** Valleydale Elementary School, 700 South Lark Ellen Avenue

| | | | | | CO2 Concentration (ppm) | | | CO Concentration (ppm) | | Temperature (°F) | | | Humidity (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Number | Start Time | End Time | Duration (min) | Sample Location | Min. | Max. | Average | Max. | Average | Min. | Max. | Average | Min. | Max. | Average |
| 211881-I-0001 | 9:36 AM | 9:46 AM | 10 | Exterior | 424 | 435 | 432 | 0.0 | 0.0 | 74.8 | 67.6 | 79.6 | 46.1 | 65.5 | 51.5 |
| 211881-I-0002 | 9:48 AM | 9:58 AM | 10 | Classroom 1 | 442 | 488 | 457 | 0.0 | 0.0 | 72.1 | 79.4 | 74.0 | 47.4 | 58.2 | 53.9 |
| 211881-I-0003 | 10:08 AM | 10:18 AM | 10 | Classroom K-1 | 429 | 570 | 446 | 0.0 | 0.0 | 68.2 | 74.7 | 70.1 | 41.3 | 51.7 | 48.4 |
| 211881-I-0004 | 10:26 AM | 10:36 AM | 10 | Classroom K-2 | 426 | 570 | 437 | 0.0 | 0.0 | 73.7 | 74.6 | 73.9 | 41.2 | 41.9 | 41.6 |
| 211881-I-0005 | 10:50 AM | 11:00 AM | 10 | Classroom K-3 | 429 | 472 | 444 | 0.0 | 0.0 | 66.1 | 74.5 | 68.8 | 40.7 | 49.9 | 46.8 |

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Web Address: www.atechinc.net

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| | | | | | CO2 Concentration (ppm) | | | CO Concentration (ppm) | | Temperature (°F) | | | Humidity (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Number | Start Time | End Time | Duration (min) | Sample Location | Min. | Max. | Average | Max. | Average | Min. | Max. | Average | Min. | Max. | Average |
| 211881-I-0006 | 11:08 AM | 11:18 AM | 10 | Library | 431 | 485 | 435 | 0.9 | 0.0 | 62.5 | 79.4 | 65.8 | 27.2 | 44.7 | 40.0 |
| 211881-I-0007 | 11:25 AM | 11:35 AM | 10 | Computer Lab | 437 | 508 | 456 | 0.0 | 0.0 | 65.3 | 71.0 | 66.8 | 41.9 | 43.7 | 43.0 |
| 211881-I-0008 | 11:43 AM | 11:53 AM | 10 | Classroom 24 | 470 | 514 | 478 | 0.0 | 0.0 | 70.7 | 74.7 | 73.1 | 47.1 | 51.0 | 49.0 |
| 211881-I-0009 | 12:04 PM | 12:14 PM | 10 | Classroom 23 | 539 | 559 | 548 | 0.0 | 0.0 | 68.1 | 73.6 | 69.8 | 48.0 | 54.8 | 52.6 |
| 211881-I-0010 | 12:17 PM | 12:27 PM | 10 | Classroom 9 | 430 | 441 | 432 | 0.0 | 0.0 | 72.3 | 78.2 | 74.1 | 45.3 | 49.9 | 47.7 |
| 211881-I-0011 | 12:34 PM | 12:44 PM | 10 | Classroom 11 | 414 | 457 | 415 | 0.0 | 0.0 | 73.1 | 78.6 | 75.3 | 42.1 | 48.4 | 45.9 |
| 211881-I-0012 | 12:54 PM | 1:04 PM | 10 | Classroom 16 | 399 | 427 | 416 | 0.0 | 0.0 | 70.3 | 79.1 | 74.7 | 40.2 | 50.9 | 43.4 |


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| | | | | | CO2 Concentration (ppm) | | | CO Concentration (ppm) | | Temperature (°F) | | | Humidity (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Number | Start Time | End Time | Duration (min) | Sample Location | Min. | Max. | Average | Max. | Average | Min. | Max. | Average | Min. | Max. | Average |
| 211881-I-0013 | 1:04 PM | 1:14 PM | 10 | Exterior | 396 | 429 | 408 | 0.3 | 0.0 | 78.7 | 92.6 | 89.2 | 27.8 | 50.2 | 27.8 |
| 211881-I-0014 | 9:32 AM | 9:42 AM | 10 | Exterior | 413 | 495 | 424 | 0.0 | 0.0 | 75.1 | 78.8 | 77.5 | 53.2 | 65.0 | 55.8 |
| 211881-I-0015 | 9:45 AM | 9:55 AM | 10 | Classroom 5 | 469 | 484 | 469 | 0.0 | 0.0 | 71.1 | 81.1 | 72.8 | 39.0 | 45.1 | 40.0 |
| 211881-I-0016 | 10:00 AM | 10:10 AM | 10 | Classroom 6 | 414 | 489 | 428 | 0.0 | 0.0 | 74.4 | 75.5 | 74.9 | 49.3 | 52.9 | 50.1 |
| 211881-I-0017 | 10:15 AM | 10:25 AM | 10 | Exterior | 397 | 455 | 422 | 0.0 | 0.0 | 79.2 | 88.7 | 85.7 | 38.4 | 55.7 | 44.2 |
| 211881-I-0018 | 10:34 AM | 10:48 AM | 14 | Exterior | 417 | 459 | 431 | 0.0 | 0.0 | 73.9 | 85.4 | 80.3 | 44.6 | 63.2 | 52.2 |
| 211881-I-0019 | 10:50 AM | 11:00 AM | 10 | Classroom 2 | 486 | 527 | 502 | 0.0 | 0.0 | 75.5 | 77.9 | 76.6 | 40.6 | 46.0 | 44.1 |


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| | | | | | CO2 Concentration (ppm) | | | CO Concentration (ppm) | | Temperature (°F) | | | Humidity (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Number | Start Time | End Time | Duration (min) | Sample Location | Min. | Max. | Average | Max. | Average | Min. | Max. | Average | Min. | Max. | Average |
| 211881-I-0020 | 11:21 AM | 11:35 AM | 14 | Classroom 3 | 426 | 476 | 436 | 0.0 | 0.0 | 70.9 | 74.0 | 73.1 | 42.5 | 46.6 | 43.9 |
| 211881-I-0021 | 11:38 AM | 11:48 AM | 10 | Classroom 4 | 424 | 484 | 441 | 0.0 | 0.0 | 75.3 | 77.6 | 76.7 | 39.0 | 44.4 | 40.6 |
| 211881-I-0022 | 11:55 AM | 12:05 PM | 10 | Room VI-100 | 425 | 523 | 437 | 0.0 | 0.0 | 71.8 | 73.6 | 72.6 | 32.6 | 35.9 | 35.3 |
| 211881-I-0023 | 12:08 PM | 12:18 PM | 10 | Classroom 7 | 437 | 458 | 446 | 0.0 | 0.0 | 69.8 | 77.8 | 73.6 | 49.9 | 57.7 | 53.1 |
| 211881-I-0024 | 12:24 PM | 12:34 PM | 10 | Classroom 8 | 423 | 493 | 438 | 0.0 | 0.0 | 66.9 | 72.4 | 68.9 | 49.5 | 53.8 | 52.1 |
| 211881-I-0025 | 12:39 PM | 12:50 PM | 11 | Classroom 10 | 468 | 608 | 489 | 0.0 | 0.0 | 73.1 | 74.7 | 74.0 | 48.3 | 54.3 | 50.9 |
| 211881-I-0026 | 1:03 PM | 1:13 PM | 10 | Classroom 12 | 464 | 483 | 473 | 0.0 | 0.0 | 68.2 | 76.8 | 72.2 | 51.8 | 56.1 | 53.1 |


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| | | | | | CO2 Concentration (ppm) | | | CO Concentration (ppm) | | Temperature (°F) | | | Humidity (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Number | Start Time | End Time | Duration (min) | Sample Location | Min. | Max. | Average | Max. | Average | Min. | Max. | Average | Min. | Max. | Average |
| 211881-I-0027 | 1:21 PM | 1:31 PM | 10 | Classroom 13 | 426 | 452 | 436 | 0.0 | 0.0 | 67.4 | 71.2 | 69.5 | 59.4 | 68.5 | 63.9 |
| 211881-I-0028 | 1:32 PM | 1:42 PM | 10 | Classroom 17 | 417 | 454 | 425 | 0.0 | 0.0 | 71.3 | 74.6 | 73.1 | 55.8 | 60.9 | 59.2 |
| 211881-I-0029 | 9:10 AM | 9:20 AM | 10 | Classroom 18 | 421 | 494 | 431 | 0.0 | 0.0 | 72.0 | 75.1 | 73.6 | 48.2 | 53.8 | 51.0 |
| 211881-I-0030 | 9:22 AM | 9:32 AM | 10 | Classroom 19 | 416 | 467 | 429 | 0.0 | 0.0 | 70.8 | 73.4 | 71.8 | 56.6 | 64.9 | 60.3 |
| 211881-I-0031 | 9:35 AM | 9:45 AM | 10 | Classroom 20 | 413 | 463 | 424 | 0.0 | 0.0 | 67.5 | 73.1 | 70.1 | 50.6 | 53.3 | 51.7 |
| 211881-I-0032 | 9:48 AM | 9:58 AM | 10 | Classroom 14 | 446 | 559 | 462 | 0.0 | 0.0 | 64.5 | 71.1 | 67.9 | 47.8 | 62.6 | 57.1 |
| 211881-I-0033 | 10:04 AM | 10:14 AM | 10 | Classroom 21 | 420 | 458 | 430 | 1.4 | 0.1 | 75.0 | 78.3 | 76.6 | 47.3 | 52.5 | 50.5 |


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| | | | | | CO2 Concentration (ppm) | | | CO Concentration (ppm) | | Temperature (°F) | | | Humidity (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Number | Start Time | End Time | Duration (min) | Sample Location | Min. | Max. | Average | Max. | Average | Min. | Max. | Average | Min. | Max. | Average |
| 211881-I-0034 | 10:39 PM | 10:49 PM | 10 | Classroom 22* | 401 | 504 | 454 | 0.3 | 0.0 | 80.1 | 85.2 | 83.4 | 45.5 | 56.2 | 48.5 |
| 211881-I-0035 | 10:54 AM | 11:04 AM | 10 | Classroom 25 | 401 | 450 | 416 | 3.0 | 0.4 | 73.2 | 82.8 | 74.8 | 35.2 | 64.4 | 56.0 |
| 211881-I-0036 | 11:08 AM | 11:18 AM | 10 | Exterior | 340 | 690 | 415 | 3.2 | 1.2 | 79.5 | 96.3 | 92.4 | 28.8 | 63.8 | 35.9 |

**Legend:**
N/A = Not Applicable
*Note: at the time of the assessment, the AC unit in Classroom 22 was not operational.


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# Continuous Aerosol Monitoring Measurements (ThermoScientific pDR1500)

**Client Name:** Azusa Unified School District **A-Tech Project Number:** 211881

**Location:** Valleydale Elementary School, 700 South Lark Ellen Avenue

| | | | | | Aerosol Concentration (µg/m$^3$) | |
|---|---|---|---|---|---|---|
| Sample Number | Start Time | End Time | Duration (min) | Sample Location | Max. | Average |
| 211881-P-0001 | 9:36 AM | 9:46 AM | 10 | Exterior | 17.5 | 15.82 |
| 211881-P-0002 | 9:48 AM | 9:58 AM | 10 | Classroom 1 | 10.56 | 9.38 |
| 211881-P-0003 | 10:08 AM | 10:18 AM | 10 | Classroom K-1 | 6.66 | 5.78 |
| 211881-P-0004 | 10:26 AM | 10:36 AM | 10 | Classroom K-2 | 7.39 | 6.2 |
| 211881-P-0005 | 10:50 AM | 11:00 AM | 10 | Classroom K-3 | 7.33 | 6.55 |
| 211881-P-0006 | 11:08 AM | 11:18 AM | 10 | Library | 5.72 | 4.63 |
| 211881-P-0007 | 11:25 AM | 11:35 AM | 10 | Computer Lab | 2.25 | 1.51 |
| 211881-P-0008 | 11:43 AM | 11:53 AM | 10 | Classroom 24 | 5.41 | 4.35 |
| 211881-P-0009 | 12:04 PM | 12:14 PM | 10 | Classroom 23 | 11.61 | 8.65 |



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| | | | | | Aerosol Concentration (µg/m$^3$) | |
|---|---|---|---|---|---|---|
| Sample Number | Start Time | End Time | Duration (min) | Sample Location | Max. | Average |
| 211881-P-0010 | 12:17 PM | 12:27 PM | 10 | Classroom 9 | 6.89 | 6.05 |
| 211881-P-0011 | 12:34 PM | 12:44 PM | 10 | Classroom 11 | 6.62 | 5.96 |
| 211881-P-0012 | 12:54 PM | 1:04 PM | 10 | Classroom 16 | 7.35 | 6.27 |
| 211881-P-0013 | 1:04 PM | 1:14 PM | 10 | Exterior | 12.33 | 11.02 |
| 211881-P-0014 | 3:13 PM | 3:23 PM | 10 | Exterior | 21.06 | 17.32 |
| 211881-P-0015 | 3:25 PM | 3:35 PM | 10 | Classroom 5 | 14.24 | 12.31 |
| 211881-P-0016 | 3:37 PM | 3:47 PM | 10 | Classroom 6 | 10.77 | 9.92 |
| 211881-P-0017 | 3:49 PM | 3:59 PM | 10 | Exterior | 33.38 | 31.03 |
| 211881-P-0018 | 9:10 AM | 9:20 AM | 10 | Exterior | 45.19 | 40.48 |
| 211881-P-0019 | 9:22 AM | 9:32 AM | 10 | Classroom 2 | 13.85 | 10.48 |
| 211881-P-0020 | 9:35 AM | 9:45 AM | 10 | Classroom 3 | 12.34 | 11.04 |
| 211881-P-0021 | 9:48 AM | 9:58 AM | 10 | Classroom 4 | 12.46 | 11.16 |


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| | | | | | Aerosol Concentration (µg/m$^3$) | |
|---|---|---|---|---|---|---|
| Sample Number | Start Time | End Time | Duration (min) | Sample Location | Max. | Average |
| 211881-P-0022 | 10:04 AM | 10:14 AM | 10 | Classroom VI-100 | 6.6 | 5.63 |
| 211881-P-0023 | 10:39 PM | 10:49 PM | 10 | Classroom 7 | 10.09 | 9.07 |
| 211881-P-0024 | 10:54 AM | 11:04 AM | 10 | Classroom 8 | 10.72 | 9.62 |
| 211881-P-0025 | 11:08 AM | 11:18 AM | 10 | Classroom 10 | 10.63 | 9.26 |
| 211881-P-0026 | 11:28 AM | 11:38 AM | 10 | Classroom 12 | 16.14 | 14.66 |
| 211881-P-0027 | 11:42 AM | 11:52 AM | 10 | Classroom 13 | 15.88 | 14.96 |
| 211881-P-0028 | 11:58 AM | 12:08 PM | 10 | Classroom 17 | 12.54 | 11.29 |
| 211881-P-0029 | 12:27 PM | 12:37 PM | 10 | Classroom 18 | 10.31 | 9.49 |
| 211881-P-0030 | 12:41 PM | 12:51 PM | 10 | Classroom 19 | 10.59 | 9.75 |
| 211881-P-0031 | 12:51 PM | 1:01 PM | 10 | Classroom 20 | 10.22 | 9.0 |
| 211881-P-0032 | 1:06 PM | 1:16 PM | 10 | Classroom 14 | 56.68 | 51.44 |
| 211881-P-0033 | 2:00 PM | 2:10 PM | 10 | Classroom 21 | 15.16 | 13.97 |

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| | | | | | Aerosol Concentration (µg/m$^3$) | |
|---|---|---|---|---|---|---|
| Sample Number | Start Time | End Time | Duration (min) | Sample Location | Max. | Average |
| 211881-P-0034 | 2:12 PM | 2:22 PM | 10 | Classroom 22 | 10.0 | 8.77 |
| 211881-P-0035 | 2:25 PM | 2:35 PM | 10 | Classroom 25 | 13.26 | 12.02 |
| 211881-P-0036 | 2:35 PM | 2:45 PM | 10 | Exterior | 27.32 | 25.11 |

**Legend:**
N/A = Not Applicable


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# Mold Air Sample Summary

**Location:** Valleydale Elementary School, 700 South Lark Ellen Avenue

**Client Name:** Azusa Unified School District

**Area:**

| Sample Number | Sample Date & Time | Sample Location | Sample Description | Sampling Time | Liters Per Min | Temp./ Humidity | Prominent Mold - Genre Level (spores/$m^3$) | Total Mold Spores (spores/$m^3$) |
|---|---|---|---|---|---|---|---|---|
| 211881-MA-0001 | 7/19/2021 9:36 AM | Exterior | Ambient | 10 Min. | 15 | 74.8 °F / 81.4% | Aspergillus/Penicillium - 660<br>Cladosporium - 480<br>Alternaria - 20<br>Ascospores - 240<br>Basidiospores - 180<br>Curvularia - 0<br>Epicoccum - 0<br>Periconia, Myxomycetes, Smuts - 40<br>Miscellaneous Spores - 0 | 1,660* |
| 211881-MA-0002 | 7/19/2021 9:48 AM | Classroom 1 | Background | 5 Min. | 15 | 71.8 °F / 59.3% | Cladosporium - 120 | 120 |
| 211881-MA-0003 | 7/19/2021 10:08 AM | Classroom K-1 | Background | 5 Min. | 15 | 69.8 °F / 46.6% | Aspergillus/Penicillium - 160<br>Cladosporium - 40<br>Periconia, Myxomycetes, Smuts - 80 | 280 |
| 211881-MA-0004 | 7/19/2021 10:27 AM | Classroom K-2 | Clearance | 5 Min. | 15 | 73.9 °F / 41.2% | Aspergillus/Penicillium - 40<br>Cladosporium - 40<br>Periconia, Myxomycetes, Smuts - 40 | 120 |
| 211881-MA-0005 | 7/19/2021 10:50 AM | Classroom K-3 | Background | 5 Min. | 15 | 67.9 °F / 48.1% | Aspergillus/Penicillium - 320<br>Cladosporium - 40<br>Basidiospores - 40<br>Miscellaneous Spores - 40 | 440 |
| 211881-MA-0006 | 7/19/2021 11:09 AM | Library | Background | 5 Min. | 15 | 65.8 °F / 40.0% | Aspergillus/Penicillium - 240<br>Basidiospores - 40 | 280 |

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| Sample Number | Sample Date & Time | Sample Location | Sample Description | Sampling Time | Liters Per Min | Temp./ Humidity | Prominent Mold - Genre Level (spores/$m^3$) | Total Mold Spores (spores/$m^3$) |
|---|---|---|---|---|---|---|---|---|
| 211881-MA-0007 | 7/19/2021 11:25 AM | Computer Lab | Background | 5 Min. | 15 | 65.6 °F / 43.2% | Aspergillus/Penicillium - 160<br>Ascospores - 40<br>Basidiospores - 120 | 320 |
| 211881-MA-0008 | 7/19/2021 11:44 AM | Classroom 24 | Background | 5 Min. | 15 | 74.3 °F / 49.3% | Aspergillus/Penicillium - 640<br>Cladosporium - 40<br>Basidiospores - 40<br>Epicoccum - 40<br>Periconia, Myxomycetes, Smuts - 80 | 840 |
| 211881-MA-0009 | 7/19/2021 12:04 PM | Classroom 23 | Background | 5 Min. | 15 | 68.3 °F / 54.6% | Aspergillus/Penicillium - 400<br>Cladosporium - 160<br>Basidiospores - 80<br>Periconia, Myxomycetes, Smuts - 80 | 720 |
| 211881-MA-0010 | 7/19/2021 12:17 PM | Classroom 9 | Background | 5 Min. | 15 | 72.3 °F / 45.3% | Aspergillus/Penicillium - 200<br>Cladosporium - 400<br>Alternaria - 40<br>Ascospores - 240<br>Basidiospores - 80<br>Curvularia - 40<br>Periconia, Myxomycetes, Smuts - 40 | 1,040 |
| 211881-MA-0011 | 7/19/2021 12:34 PM | Classroom 11 | Background | 5 Min. | 15 | 75.5 °F / 43.3% | Aspergillus/Penicillium - 360<br>Cladosporium - 200<br>Alternaria - 40<br>Ascospores - 40<br>Basidiospores - 120<br>Periconia, Myxomycetes, Smuts - 40<br>Miscellaneous Spores - 40 | 840 |
| 211881-MA-0012 | 7/19/2021 12:53 PM | Classroom 16 | Background | 5 Min. | 15 | 71.2 °F / 45.5% | Aspergillus/Penicillium - 240<br>Cladosporium - 120 | 360 |

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| Sample Number | Sample Date & Time | Sample Location | Sample Description | Sampling Time | Liters Per Min | Temp./ Humidity | Prominent Mold - Genre Level (spores/$m^3$) | Total Mold Spores (spores/$m^3$) |
|---|---|---|---|---|---|---|---|---|
| 211881-MA-0013 | 7/19/2021 1:04 PM | Exterior | Ambient | 10 Min. | 15 | 90.0 °F / 34.4% | Aspergillus/Penicillium - 480<br>Cladosporium - 6,000<br>Alternaria - 140<br>Ascospores - 60<br>Basidiospores - 80<br>Curvularia - 40<br>Epicoccum - 200<br>Periconia, Myxomycetes, Smuts - 80<br>Miscellaneous Spores - 0 | 7,180* |
| 211881-MA-0014 | 8/9/2021 3:12 PM | Exterior | Ambient | 10 Min. | 15 | 90.3 °F / 34.7% | Aspergillus/Penicillium - 260<br>Cladosporium - 1,180<br>Alternaria - 20<br>Ascospores - 120<br>Basidiospores - 140<br>Bipolaris - 20<br>Epicoccum - 20<br>Periconia, Myxomycetes, Smuts - 200 | 1,960* |
| 211881-MA-0015 | 8/9/2021 3:25 PM | Classroom 5 | Background | 5 Min. | 15 | 69.4 °F / 41.4% | Aspergillus/Penicillium - 40<br>Periconia, Myxomycetes, Smuts - 40 | 80 |
| 211881-MA-0016 | 8/9/2021 3:37 PM | Classroom 6 | Background | 5 Min. | 15 | 75.1 °F / 50.9% | Aspergillus/Penicillium - 400<br>Cladosporium - 240<br>Periconia, Myxomycetes, Smuts - 200 | 840 |

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| Sample Number | Sample Date & Time | Sample Location | Sample Description | Sampling Time | Liters Per Min | Temp./ Humidity | Prominent Mold - Genre Level (spores/$m^3$) | Total Mold Spores (spores/$m^3$) |
|---|---|---|---|---|---|---|---|---|
| 211881-MA-0017 | 8/9/2021 3:46 PM | Exterior | Ambient | 10 Min. | 15 | 88.8 °F / 38.5% | Aspergillus/Penicillium - 2,080<br>Cladosporium - 1,160<br>Alternaria - 20<br>Ascospores - 20<br>Ascospores - 20<br>Basidiospores - 40<br>Bipolaris - 40<br>Epicoccum - 20<br>Nigrospora - 40<br>Periconia, Myxomycetes, Smuts - 140<br>Torula - 140<br>Oidium - 140 | 3,860* |
| 211881-MA-0018 | 8/10/2021 9:10 AM | Exterior | Ambient | 10 Min. | 15 | 78.0 °F / 58.1% | Aspergillus/Penicillium - 400<br>Cladosporium - 1,240<br>Alternaria - 40<br>Ascospores - 80<br>Basidiospores - 1,420<br>Bipolaris - 40<br>Periconia, Myxomycetes, Smuts - 100<br>Ganoderma - 80 | 3,400* |
| 211881-MA-0019 | 8/10/2021 9:22 AM | Classroom 2 | Background | 5 Min. | 15 | 75.6 °F / 45.0% | Aspergillus/Penicillium - 520<br>Cladosporium - 40<br>Ascospores - 40<br>Basidiospores - 240<br>Epicoccum - 40<br>Periconia, Myxomycetes, Smuts - 80 | 960 |
| 211881-MA-0020 | 8/10/2021 9:35 AM | Classroom 3 | Background | 5 Min. | 15 | 71.5 °F / 46.7% | Aspergillus/Penicillium - 240<br>Cladosporium - 40<br>Periconia, Myxomycetes, Smuts - 40<br>Basidiospores - 40 | 360 |

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| Sample Number | Sample Date & Time | Sample Location | Sample Description | Sampling Time | Liters Per Min | Temp./ Humidity | Prominent Mold - Genre Level (spores/$m^3$) | Total Mold Spores (spores/$m^3$) |
|---|---|---|---|---|---|---|---|---|
| 211881-MA-0021 | 8/10/2021 9:49 AM | Classroom 4 | Background | 5 Min. | 15 | 76.4 °F / 41.8% | Aspergillus/Penicillium - 200<br>Cladosporium - 40<br>Basidiospores - 160 | 400 |
| 211881-MA-0022 | 8/10/2021 10:03 AM | Room VI-100 | Background | 5 Min. | 15 | 73.2 °F / 34.7% | Aspergillus/Penicillium - 240<br>Cladosporium - 320<br>Periconia, Myxomycetes, Smuts - 40 | 600 |
| 211881-MA-0023 | 8/10/2021 10:39 AM | Classroom 7 | Background | 5 Min. | 15 | 70.9 °F / 57.3% | Aspergillus/Penicillium - 320<br>Cladosporium - 120<br>Ascospores - 40<br>Basidiospores - 40<br>Periconia, Myxomycetes, Smuts - 40 | 600 |
| 211881-MA-0024 | 8/10/2021 10:54 AM | Classroom 8 | Background | 5 Min. | 15 | 67.6 °F / 53.8% | Aspergillus/Penicillium - 280<br>Cladosporium - 80<br>Basidiospores - 120<br>Epicoccum - 40 | 520 |
| 211881-MA-0025 | 8/10/2021 11:08 AM | Classroom 10 | Background | 5 Min. | 15 | 73.4 °F / 52.4% | Aspergillus/Penicillium - 360<br>Cladosporium - 80<br>Basidiospores - 40<br>Periconia, Myxomycetes, Smuts - 80 | 560 |
| 211881-MA-0026 | 8/10/2021 11:28 AM | Classroom 12 | Background | 5 Min. | 15 | 68.1 °F / 52.0% | Aspergillus/Penicillium - 360<br>Ascospores - 40<br>Basidiospores - 120<br>Periconia, Myxomycetes, Smuts - 120 | 640 |
| 211881-MA-0027 | 8/10/2021 11:42 AM | Classroom 13 | Background | 5 Min. | 15 | 67.5 °F / 61.2% | Aspergillus/Penicillium - 120<br>Ascospores - 40<br>Basidiospores - 40<br>Periconia, Myxomycetes, Smuts - 160 | 360 |

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| Sample Number | Sample Date & Time | Sample Location | Sample Description | Sampling Time | Liters Per Min | Temp./ Humidity | Prominent Mold - Genre Level (spores/$m^3$) | Total Mold Spores (spores/$m^3$) |
|---|---|---|---|---|---|---|---|---|
| 211881-MA-0028 | 8/10/2021 11:58 AM | Classroom 17 | Background | 5 Min. | 15 | 71.5 °F / 57.3% | Aspergillus/Penicillium - 280<br>Chaetomium - 40<br>Periconia, Myxomycetes, Smuts - 40<br>Ganoderma - 40<br>Cladosporium - 40 | 440 |
| 211881-MA-0029 | 8/10/2021 12:15 PM | Classroom 18 | Background | 5 Min. | 15 | 71.9 °F / 53.9% | Aspergillus/Penicillium - 280<br>Cladosporium - 40<br>Basidiospores - 40<br>Bipolaris - 40 | 400 |
| 211881-MA-0030 | 8/10/2021 12:42 PM | Classroom 19 | Background | 5 Min. | 15 | 71.6 °F / 63.3% | Aspergillus/Penicillium - 160<br>Bipolaris - 40 | 200 |
| 211881-MA-0031 | 8/10/2021 12:49 PM | Classroom 20 | Background | 5 Min. | 15 | 68.6 °F / 51.7% | Aspergillus/Penicillium - 200<br>Ascospores - 40<br>Basidiospores - 80<br>Periconia, Myxomycetes, Smuts - 40<br>Cladosporium - 240 | 600 |
| 211881-MA-0032 | 8/10/2021 1:06 PM | Classroom 14 | Background | 5 Min. | 15 | 68.2 °F / 62.4% | Aspergillus/Penicillium - 520<br>Cladosporium - 40 | 560 |
| 211881-MA-0033 | 8/10/2021 1:59 PM | Classroom 21 | Background | 5 Min. | 15 | 75.2 °F / 51.4% | Aspergillus/Penicillium - 160<br>Periconia, Myxomycetes, Smuts - 40 | 200 |
| 211881-MA-0034 | 8/10/2021 2:13 PM | Classroom 22 | Background | 5 Min. | 15 | 83.8 °F / 59.4% | Aspergillus/Penicillium - 400<br>Cladosporium - 200 | 600 |
| 211881-MA-0035 | 8/10/2021 2:25 PM | Classroom 25 | Background | 5 Min. | 15 | 74.4 °F / 53.2% | Aspergillus/Penicillium - 200<br>Cladosporium - 80<br>Alternaria - 40<br>Ascospores - 40<br>Basidiospores - 120 | 480 |

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| Sample Number | Sample Date & Time | Sample Location | Sample Description | Sampling Time | Liters Per Min | Temp./ Humidity | Prominent Mold - Genre Level (spores/$m^3$) | Total Mold Spores (spores/$m^3$) |
|---|---|---|---|---|---|---|---|---|
| 211881-MA-0036 | 8/10/2021 2:32 PM | Exterior | Ambient | 10 Min. | 15 | 93.0 °F / 33.8% | Aspergillus/Penicillium - 700<br>Cladosporium - 1,820<br>Alternaria - 60<br>Ascospores - 100<br>Basidiospores - 180<br>Epicoccum - 60<br>Periconia, Myxomycetes, Smuts - 80<br>Oidium - 20<br>Ganoderma - 60 | 3,080* |

***Note:** Total mold spore count reflects all genres detected in the exterior sample, including the genres not detected in the interior sample obtained.

**LEGEND:**
(1) P = Present, NP = Not Present
(2) **RED** = Elevated Spore Concentrations of Specific Genres
(3) **BLUE** = Genre Found Inside at Low Levels but not found Outside
(4) N/A = Not Applicable

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Not to Scale

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# Valleydale Elementary School

**Site Drawing - Indoor Air Quality - Page 1 of 1**

Valleydale Elementary School
700 South Lark Ellen Avenue
Azusa, California 91702

**Project #: Atch-211881**

**Azusa Unified School District**

**LEGEND:**
**I = IAQCalc Sample Locations**
**P = PDR1500 Sample Locations**
**MA = Mold Air Sample Locations**

A-Tech Consulting, Inc.

# Digital Photographs - IAQ

**Locations:** Valleydale Elementary School, 700 South Lark Ellen Avenue

**Client Name:** Azusa Unified School District

View of Room 2

View of Room 3

View of Room 4

View of Room 5

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View of Room 6

View of Room 7

View of Room 8

View of Room 10

View of Room 12

View of Room 13



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View of Room 14

View of Room 18

View of Room 19

View of Room 20

View of Room 21

View of Room 22



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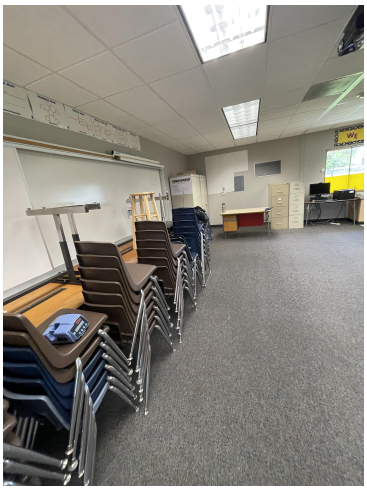
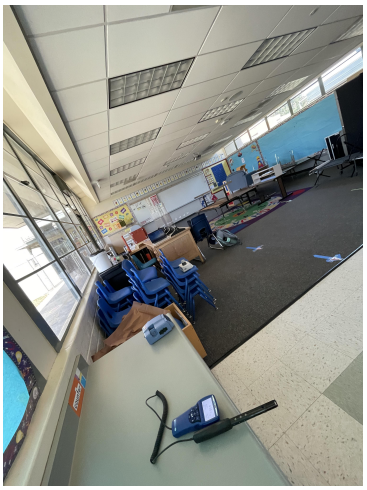


View of Room 23

View of Room 25

View of Library



View of K-1 class

Exterior

View of Room VI-100



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Web Address: www.atechinc.net

AIH LABORATORY
2556 W Woodland Dr Anaheim, CA 92801
Phone:(562) 860-2201
www.aihlab.com

# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2111461 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 13 |
| | | **Samples Analyzed:** | 13 |

| **Laboratory Sample ID:** | **211146101** | **211146102** | **211146103** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0001** | **MA-0002** | **MA-0003** |
| **Sample Location:** | **Exterior** | **1st Floor, Classroom 1** | **1st Floor, Classroom K-1** |
| **Comments:** | *None* | *None* | *None* |

*Quantitative Analysis*

| | | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Inside/Outside** | Aspergillus/Penicillium-like | 33 | 660 | 39.8 | - | - | - | 4 | 160 | 57.1 |
| | Cladosporium | 24 | 480 | 28.9 | 3 | 120 | 100 | 1 | 40 | 14.3 |
| **Water Damage Indication** | Chaetomium | - | - | - | - | - | - | - | - | - |
| | Stachybotrys | - | - | - | - | - | - | - | - | - |
| | Trichoderma | - | - | - | - | - | - | - | - | - |
| | Ulocladium | - | - | - | - | - | - | - | - | - |
| **Outdoor Environment** | Alternaria | 1 | 20 | 1.2 | - | - | - | - | - | - |
| | Ascospores | 12 | 240 | 14.5 | - | - | - | - | - | - |
| | Basidiospores | 9 | 180 | 10.8 | - | - | - | - | - | - |
| | Bipolaris | - | - | - | - | - | - | - | - | - |
| | Curvularia | - | - | - | - | - | - | - | - | - |
| | Epicoccum | - | - | - | - | - | - | - | - | - |
| | Nigrospora | - | - | - | - | - | - | - | - | - |
| | Periconia/Myxo/Smut | 2 | 40 | 2.4 | - | - | - | 2 | 80 | 28.6 |
| | Pithomyces | - | - | - | - | - | - | - | - | - |
| | Rust | - | - | - | - | - | - | - | - | - |
| | Spegazzinia | - | - | - | - | - | - | - | - | - |
| | Tetraploa | - | - | - | - | - | - | - | - | - |
| | Torula | 1 | 20 | 1.2 | - | - | - | - | - | - |
| | Miscellaneous Spores | - | - | - | - | - | - | - | - | - |
| | Ganoderma | 1 | 20 | 1.2 | - | - | - | - | - | - |
| | | | | | | | | | | |
| | Total | 83 | 1660 | 100 | 3 | 120 | 100 | 7 | 280 | 100 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2111461 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 13 |
| | | **Samples Analyzed:** | 13 |

| **Laboratory Sample ID:** | **211146101** | **211146102** | **211146103** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0001** | **MA-0002** | **MA-0003** |
| **Sample Location:** | **Exterior** | **1st Floor, Classroom 1** | **1st Floor, Classroom K-1** |

*Sample Collection Data*

| | | | |
|---|---|---|---|
| Total Time: | | | |
| Flow Rate: | | | |
| Volume: | 150 | 75 | 75 |

*Qualitative Analysis*

| | | | |
|---|---|---|---|
| Skin Fragments- 1 to 5 (low to high): | 1 | 1 | 2 |
| Background/m3- 1 to 5 (low to high): | 4 | 2 | 2 |
| Hyphal Fragments- 1 to 5 (low to high): | 1 | 1 | 1 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2111461 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 13 |
| | | **Samples Analyzed:** | 13 |

| **Laboratory Sample ID:** | **211146104** | **211146105** | **211146106** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0004** | **MA-0005** | **MA-0006** |
| **Sample Location:** | **1st Floor, Classroom K-2** | **1st Floor, Classroom K-3** | **1st Floor, Library** |
| **Comments:** | *None* | *None* | *None* |

*Quantitative Analysis*

| | | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Inside/Outside** | Aspergillus/Penicillium-like | 11 | 40 | 33.3 | 8 | 320 | 72.7 | 6 | 240 | 85.7 |
| | Cladosporium | 1 | 40 | 33.3 | 1 | 40 | 9.1 | - | - | - |
| **Water Damage Indication** | Chaetomium | - | - | - | - | - | - | - | - | - |
| | Stachybotrys | - | - | - | - | - | - | - | - | - |
| | Trichoderma | - | - | - | - | - | - | - | - | - |
| | Ulocladium | - | - | - | - | - | - | - | - | - |
| **Outdoor Environment** | Alternaria | - | - | - | - | - | - | - | - | - |
| | Ascospores | - | - | - | - | - | - | - | - | - |
| | Basidiospores | - | - | - | 1 | 40 | 9.1 | 1 | 40 | 14.3 |
| | Bipolaris | - | - | - | - | - | - | - | - | - |
| | Curvularia | - | - | - | - | - | - | - | - | - |
| | Epicoccum | - | - | - | - | - | - | - | - | - |
| | Nigrospora | - | - | - | - | - | - | - | - | - |
| | Periconia/Myxo/Smut | 1 | 40 | 33.3 | - | - | - | - | - | - |
| | Pithomyces | - | - | - | - | - | - | - | - | - |
| | Rust | - | - | - | - | - | - | - | - | - |
| | Spegazzinia | - | - | - | - | - | - | - | - | - |
| | Tetraploa | - | - | - | - | - | - | - | - | - |
| | Torula | - | - | - | - | - | - | - | - | - |
| | Miscellaneous Spores | - | - | - | 1 | 40 | 9.1 | - | - | - |
| | Ganoderma | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | |
| | Total | 13 | 120 | 100 | 11 | 440 | 100 | 7 | 280 | 100 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2111461 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 13 |
| | | **Samples Analyzed:** | 13 |

| **Laboratory Sample ID:** | **211146104** | **211146105** | **211146106** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0004** | **MA-0005** | **MA-0006** |
| **Sample Location:** | **1st Floor, Classroom K-2** | **1st Floor, Classroom K-3** | **1st Floor, Library** |

*Sample Collection Data*

| | | | |
|---|---|---|---|
| Total Time: | | | |
| Flow Rate: | | | |
| Volume: | 75 | 75 | 75 |

*Qualitative Analysis*

| | | | |
|---|---|---|---|
| Skin Fragments- 1 to 5 (low to high): | 1 | 1 | 1 |
| Background/m3- 1 to 5 (low to high): | 3 | 2 | 2 |
| Hyphal Fragments- 1 to 5 (low to high): | 1 | 1 | 1 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2111461 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 13 |
| | | **Samples Analyzed:** | 13 |

| **Laboratory Sample ID:** | **211146107** | **211146108** | **211146109** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0007** | **MA-0008** | **MA-0009** |
| **Sample Location:** | **1st Floor, Computer Lab** | **1st Floor, Classroom 24** | **1st Floor, Classroom 23** |
| **Comments:** | *None* | *None* | *None* |

*Quantitative Analysis*

| | | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Inside/Outside** | Aspergillus/Penicillium-like | 4 | 160 | 50 | 16 | 640 | 76.2 | 10 | 400 | 55.6 |
| | Cladosporium | - | - | - | 1 | 40 | 4.8 | 4 | 160 | 22.2 |
| **Water Damage Indication** | Chaetomium | - | - | - | - | - | - | - | - | - |
| | Stachybotrys | - | - | - | - | - | - | - | - | - |
| | Trichoderma | - | - | - | - | - | - | - | - | - |
| | Ulocladium | - | - | - | - | - | - | - | - | - |
| **Outdoor Environment** | Alternaria | - | - | - | - | - | - | - | - | - |
| | Ascospores | 1 | 40 | 12.5 | - | - | - | - | - | - |
| | Basidiospores | 3 | 120 | 37.5 | 1 | 40 | 4.8 | 2 | 80 | 11.1 |
| | Bipolaris | - | - | - | - | - | - | - | - | - |
| | Curvularia | - | - | - | - | - | - | - | - | - |
| | Epicoccum | - | - | - | 1 | 40 | 4.8 | - | - | - |
| | Nigrospora | - | - | - | - | - | - | - | - | - |
| | Periconia/Myxo/Smut | - | - | - | 2 | 80 | 9.5 | 2 | 80 | 11.1 |
| | Pithomyces | - | - | - | - | - | - | - | - | - |
| | Rust | - | - | - | - | - | - | - | - | - |
| | Spegazzinia | - | - | - | - | - | - | - | - | - |
| | Tetraploa | - | - | - | - | - | - | - | - | - |
| | Torula | - | - | - | - | - | - | - | - | - |
| | Miscellaneous Spores | - | - | - | - | - | - | - | - | - |
| | Ganoderma | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | |
| | Total | 8 | 320 | 100 | 21 | 840 | 100 | 18 | 720 | 100 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2111461 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 13 |
| | | **Samples Analyzed:** | 13 |

| **Laboratory Sample ID:** | **211146107** | **211146108** | **211146109** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0007** | **MA-0008** | **MA-0009** |
| **Sample Location:** | **1st Floor, Computer Lab** | **1st Floor, Classroom 24** | **1st Floor, Classroom 23** |

*Sample Collection Data*

| | | | |
|---|---|---|---|
| Total Time: | | | |
| Flow Rate: | | | |
| Volume: | 75 | 75 | 75 |

*Qualitative Analysis*

| | | | |
|---|---|---|---|
| Skin Fragments- 1 to 5 (low to high): | 1 | 2 | 1 |
| Background/m3- 1 to 5 (low to high): | 2 | 3 | 3 |
| Hyphal Fragments- 1 to 5 (low to high): | 1 | 1 | 1 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2111461 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 13 |
| | | **Samples Analyzed:** | 13 |

| | | | |
|---|---|---|---|
| **Laboratory Sample ID:** | **211146110** | **211146111** | **211146112** |
| **Client Sample ID:** | **MA-0010** | **MA-0011** | **MA-0012** |
| **Sample Location:** | **1st Floor, Classroom 9** | **1st Floor, Classroom 11** | **1st Floor, Classroom 16** |
| **Comments:** | *None* | *None* | *None* |

*Quantitative Analysis*

| | | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Inside/Outside** | Aspergillus/Penicillium-like | 5 | 200 | 19.2 | 9 | 360 | 42.9 | 6 | 240 | 66.7 |
| | Cladosporium | 10 | 400 | 38.5 | 5 | 200 | 23.8 | 3 | 120 | 33.3 |
| **Water Damage Indication** | Chaetomium | - | - | - | - | - | - | - | - | - |
| | Stachybotrys | - | - | - | - | - | - | - | - | - |
| | Trichoderma | - | - | - | - | - | - | - | - | - |
| | Ulocladium | - | - | - | - | - | - | - | - | - |
| **Outdoor Environment** | Alternaria | 1 | 40 | 3.8 | 1 | 40 | 4.8 | - | - | - |
| | Ascospores | 6 | 240 | 23.1 | 1 | 40 | 4.8 | - | - | - |
| | Basidiospores | 2 | 80 | 7.7 | 3 | 120 | 14.3 | - | - | - |
| | Bipolaris | - | - | - | - | - | - | - | - | - |
| | Curvularia | 1 | 40 | 3.8 | - | - | - | - | - | - |
| | Epicoccum | - | - | - | - | - | - | - | - | - |
| | Nigrospora | - | - | - | - | - | - | - | - | - |
| | Periconia/Myxo/Smut | 1 | 40 | 3.8 | 1 | 40 | 4.8 | - | - | - |
| | Pithomyces | - | - | - | - | - | - | - | - | - |
| | Rust | - | - | - | - | - | - | - | - | - |
| | Spegazzinia | - | - | - | - | - | - | - | - | - |
| | Tetraploa | - | - | - | - | - | - | - | - | - |
| | Torula | - | - | - | - | - | - | - | - | - |
| | Miscellaneous Spores | - | - | - | 1 | 40 | 4.8 | - | - | - |
| | Ganoderma | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | |
| | Total | 26 | 1040 | 100 | 21 | 840 | 100 | 9 | 360 | 100 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2111461 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 13 |
| | | **Samples Analyzed:** | 13 |

| **Laboratory Sample ID:** | **211146110** | **211146111** | **211146112** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0010** | **MA-0011** | **MA-0012** |
| **Sample Location:** | **1st Floor, Classroom 9** | **1st Floor, Classroom 11** | **1st Floor, Classroom 16** |

*Sample Collection Data*

| | | | |
|---|---|---|---|
| Total Time: | | | |
| Flow Rate: | | | |
| Volume: | 75 | 75 | 75 |

*Qualitative Analysis*

| | | | |
|---|---|---|---|
| Skin Fragments- 1 to 5 (low to high): | 2 | 2 | 1 |
| Background/m3- 1 to 5 (low to high): | 3 | 4 | 2 |
| Hyphal Fragments- 1 to 5 (low to high): | 1 | 1 | 1 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2111461 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 13 |
| | | **Samples Analyzed:** | 13 |

| | | | |
|---|---|---|---|
| **Laboratory Sample ID:** | **211146113** | **XXXXXXXX** | **XXXXXXXX** |
| **Client Sample ID:** | **MA-0013** | **XXXXXXXX** | **XXXXXXXX** |
| **Sample Location:** | **Exterior** | **XXXXXXXX** | **XXXXXXXX** |
| **Comments:** | *None* | | |

*Quantitative Analysis*

| | | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Inside/Outside** | Aspergillus/Penicillium-like | 24 | 480 | 6.7 | | | | | | |
| | Cladosporium | 300 | 6000 | 83.6 | | | | | | |
| **Water Damage Indication** | Chaetomium | 1 | 20 | 0.3 | | | | | | |
| | Stachybotrys | - | - | - | | | | | | |
| | Trichoderma | - | - | - | | | | | | |
| | Ulocladium | - | - | - | | | | | | |
| **Outdoor Environment** | Alternaria | 7 | 140 | 1.9 | | | | | | |
| | Ascospores | 3 | 60 | 0.8 | | | | | | |
| | Basidiospores | 4 | 80 | 1.1 | | | | | | |
| | Bipolaris | 2 | 40 | 0.6 | | | | | | |
| | Curvularia | 2 | 40 | 0.6 | | | | | | |
| | Epicoccum | 10 | 200 | 2.8 | | | | | | |
| | Nigrospora | - | - | - | | | | | | |
| | Periconia/Myxo/Smut | 4 | 80 | 1.1 | | | | | | |
| | Pithomyces | - | - | - | | | | | | |
| | Rust | - | - | - | | | | | | |
| | Spegazzinia | - | - | - | | | | | | |
| | Tetraploa | - | - | - | | | | | | |
| | Torula | - | - | - | | | | | | |
| | Miscellaneous Spores | - | - | - | | | | | | |
| | Ganoderma | 2 | 40 | 0.6 | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | Total | 359 | 7180 | 100 | | | | | | |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2111461 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 13 |
| | | **Samples Analyzed:** | 13 |

| | | | |
|---|---|---|---|
| **Laboratory Sample ID:** | **211146113** | **XXXXXXXX** | **XXXXXXXX** |
| **Client Sample ID:** | **MA-0013** | **XXXXXXXX** | **XXXXXXXX** |
| **Sample Location:** | **Exterior** | **XXXXXXXX** | **XXXXXXXX** |

*Sample Collection Data*

| | | | |
|---|---|---|---|
| Total Time: | | | |
| Flow Rate: | | | |
| Volume: | 150 | | |

*Qualitative Analysis*

| | | | |
|---|---|---|---|
| Skin Fragments- 1 to 5 (low to high): | 1 | | |
| Background/m3- 1 to 5 (low to high): | 5 | | |
| Hyphal Fragments- 1 to 5 (low to high): | 2 | | |

**Analyzed by:** Emily Chang **Signature:** **Date:** 07-20-2021

**Reviewed by:** Zubair Ahmed **Signature:** **Date:** 07-22-2021

No accepted regulatory standards currently exit by which to assess the health risks related to mold exposure. Molds have been associated with a variety of health effects and sensitivity varies from person to person. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. High levels of background particulate can obscure spores and other particulates leading to underestimation. "-" Denotes not detected. Background levels of 4 or 5 indicate an overload of background particulates, prohibiting accurate detection and quantification. AIH Laboratory maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by AIH Laboratory. AIH Laboratory bears no responsibility for sample collection activities or analytical method limitations. Spores/$m^3$ calculation based on volume information provided by client. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. All report format and design are copyright of AIH Laboratory 2021.
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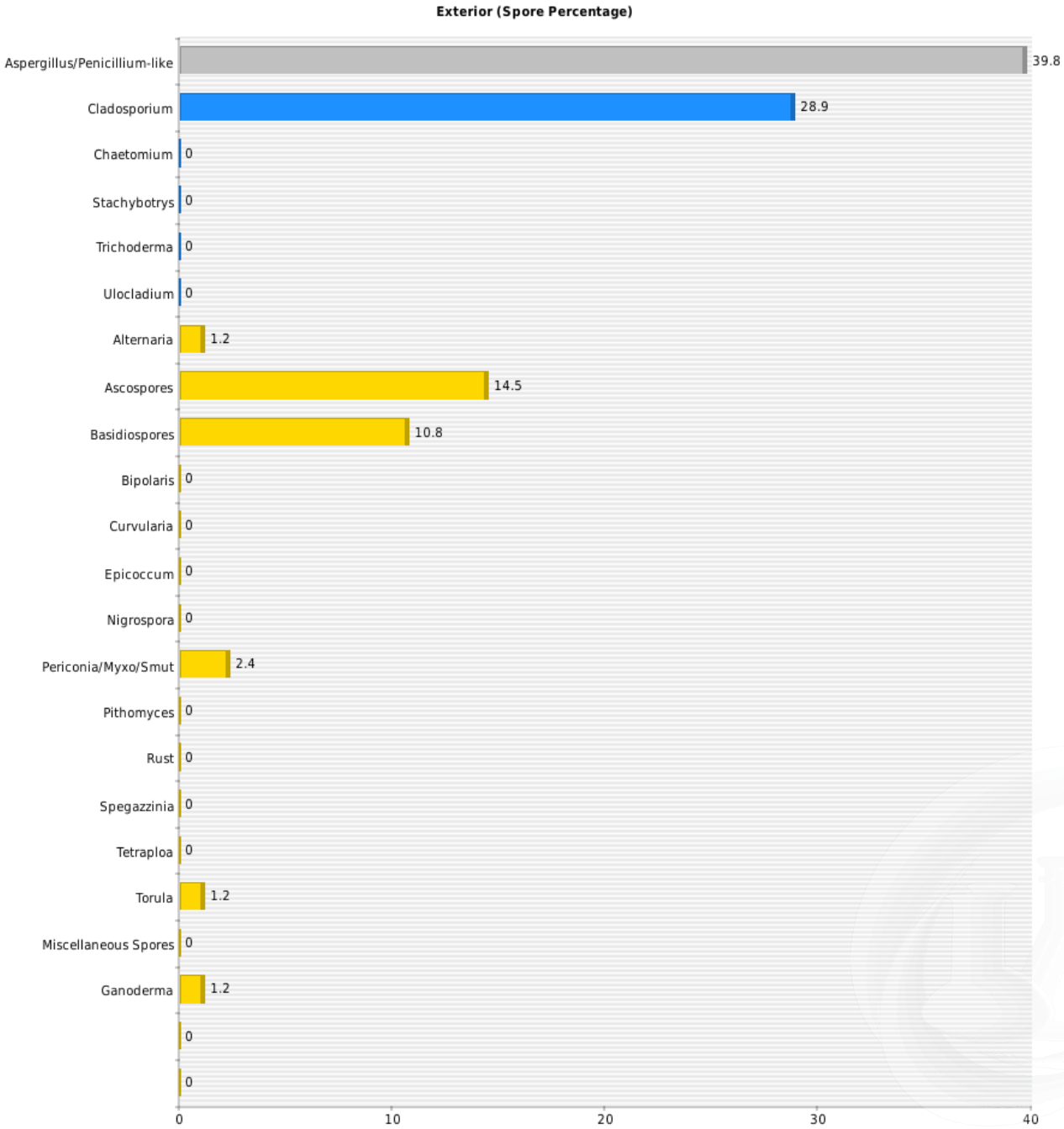
# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2111461 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 13 |
| | | **Samples Analyzed:** | 13 |



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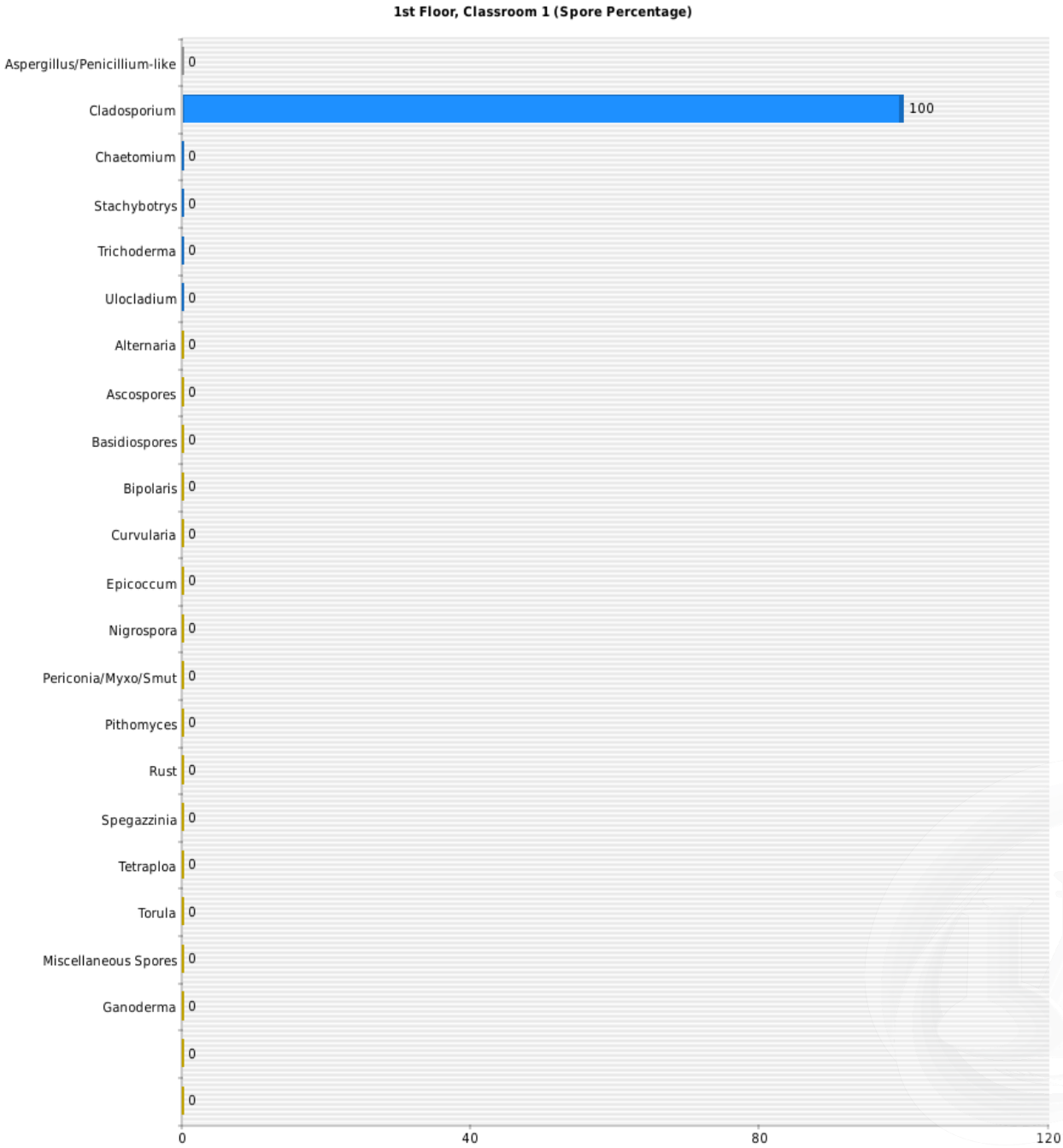
# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2111461 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 13 |
| | | **Samples Analyzed:** | 13 |



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# MOLD AIR SAMPLE REPORT

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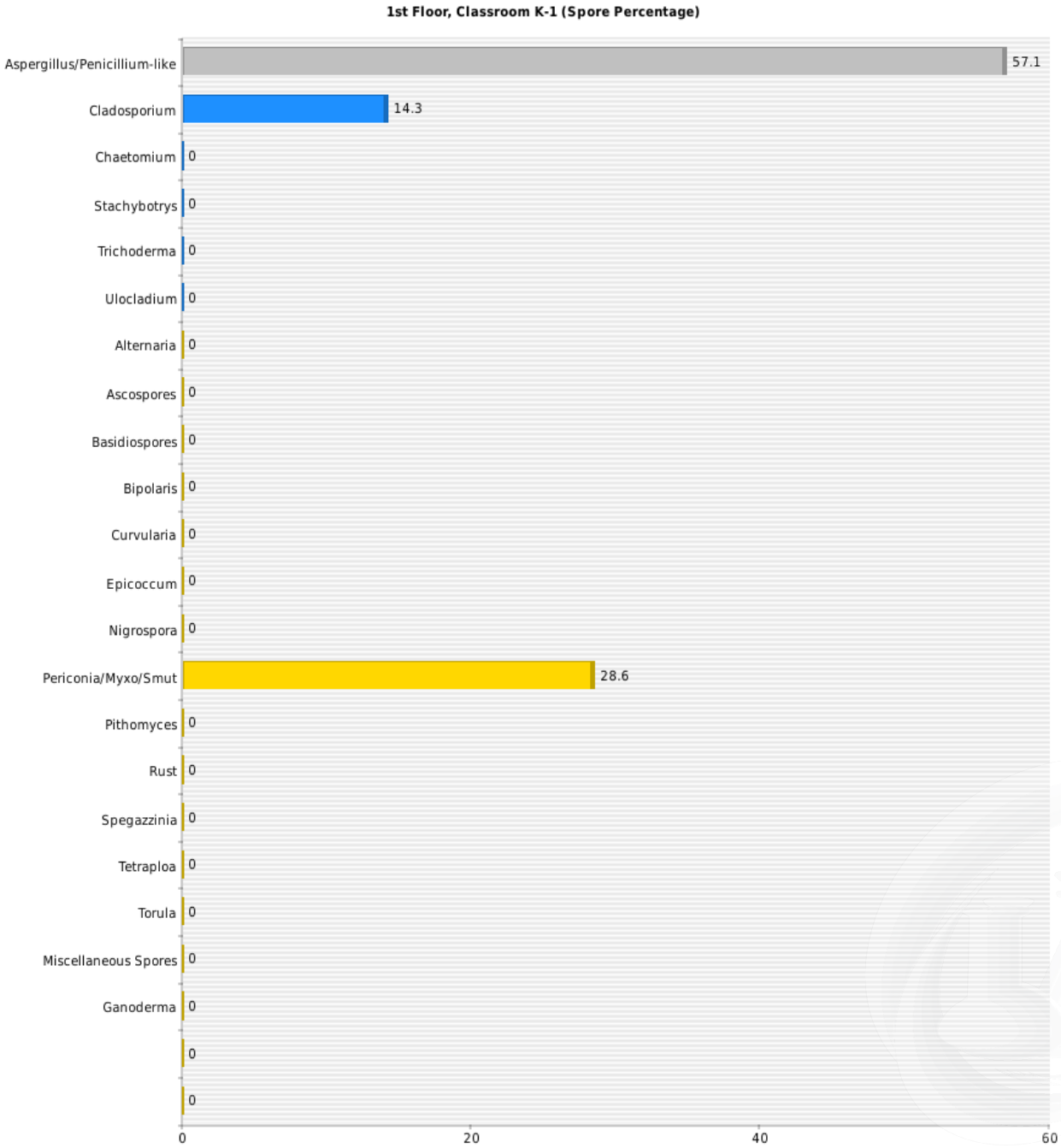
| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2111461 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 13 |
| | | **Samples Analyzed:** | 13 |



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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2111461 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 13 |
| | | **Samples Analyzed:** | 13 |

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# MOLD AIR SAMPLE REPORT

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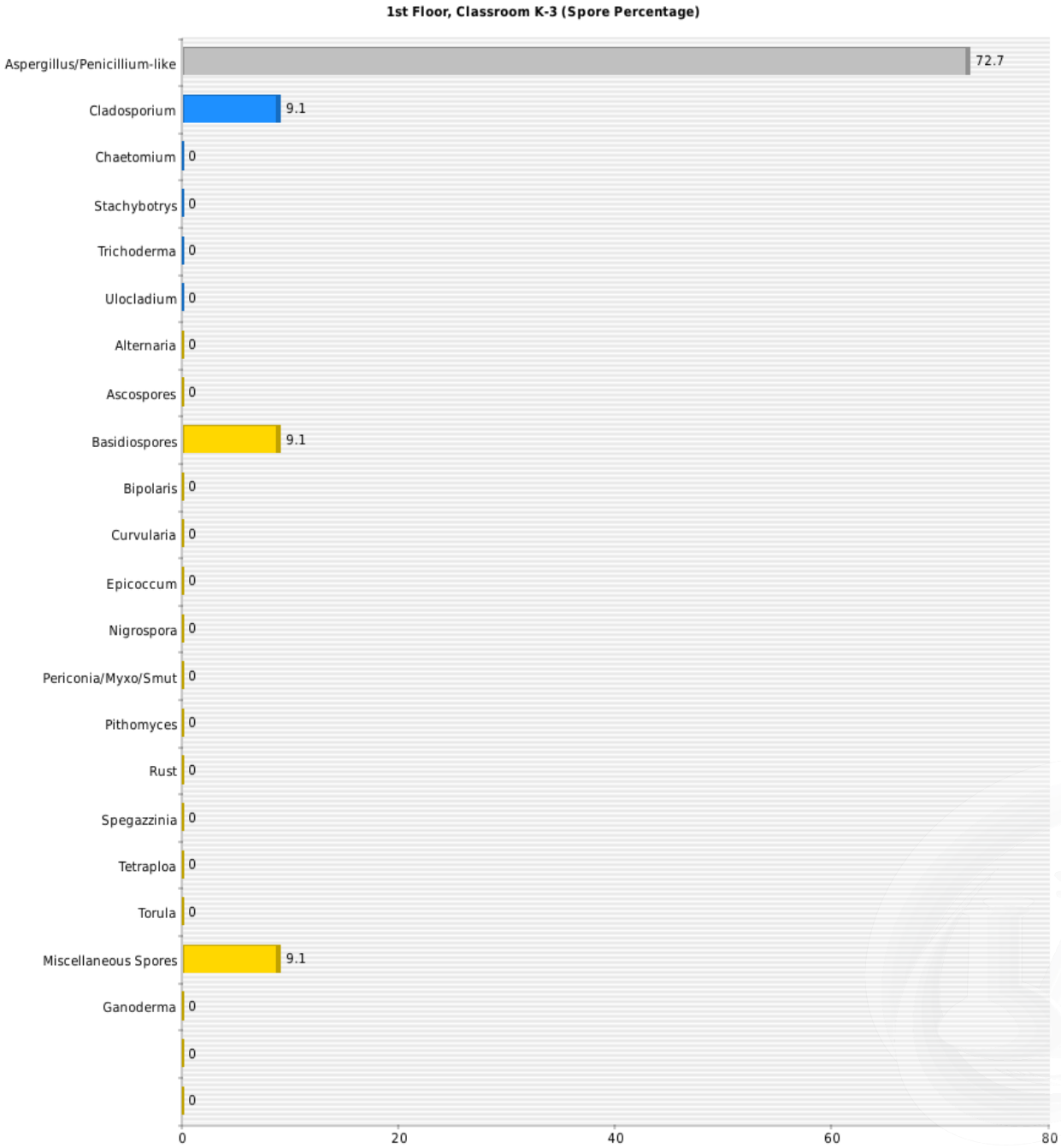

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# MOLD AIR SAMPLE REPORT

| | | | |
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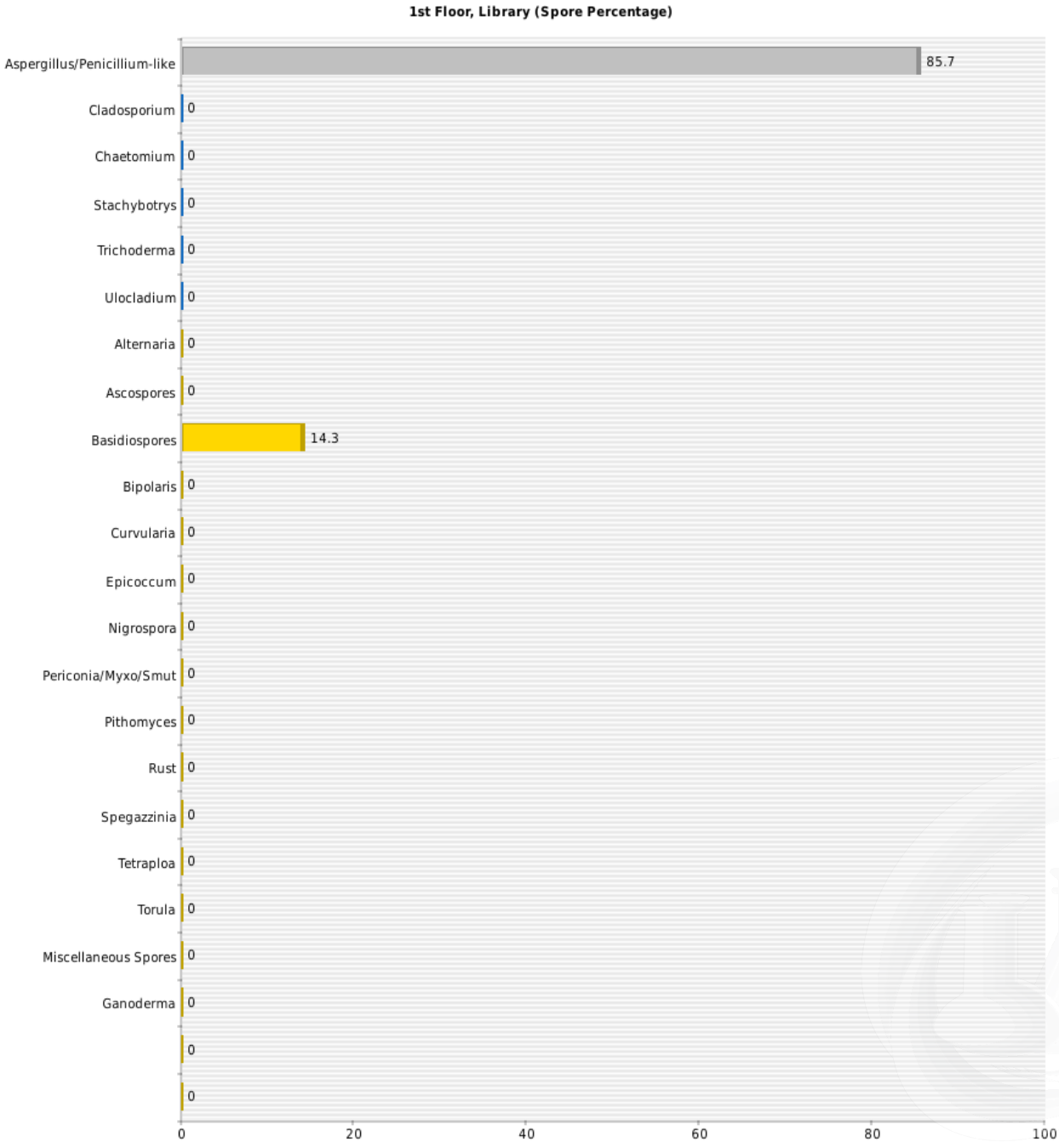

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# MOLD AIR SAMPLE REPORT

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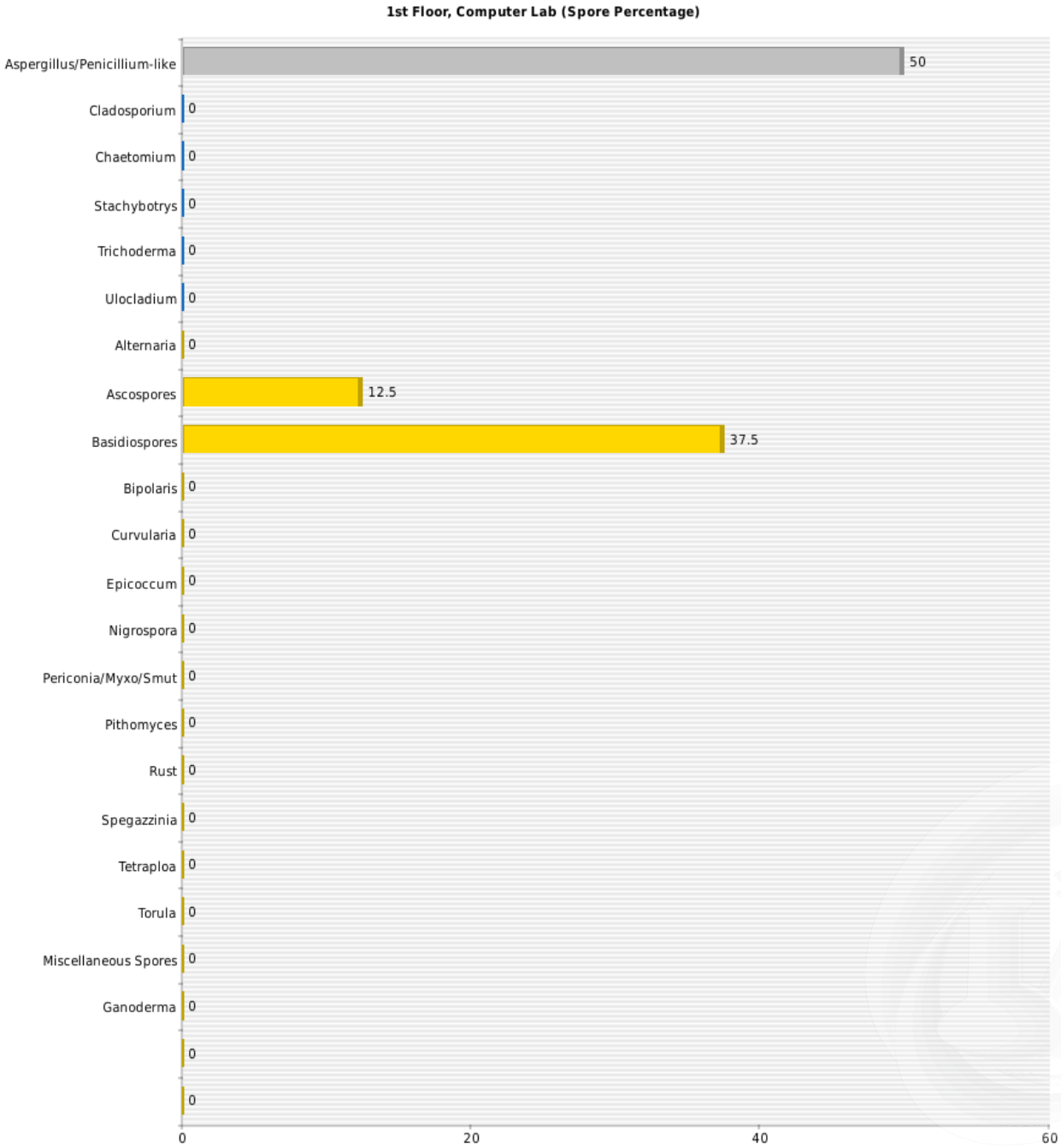

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# MOLD AIR SAMPLE REPORT

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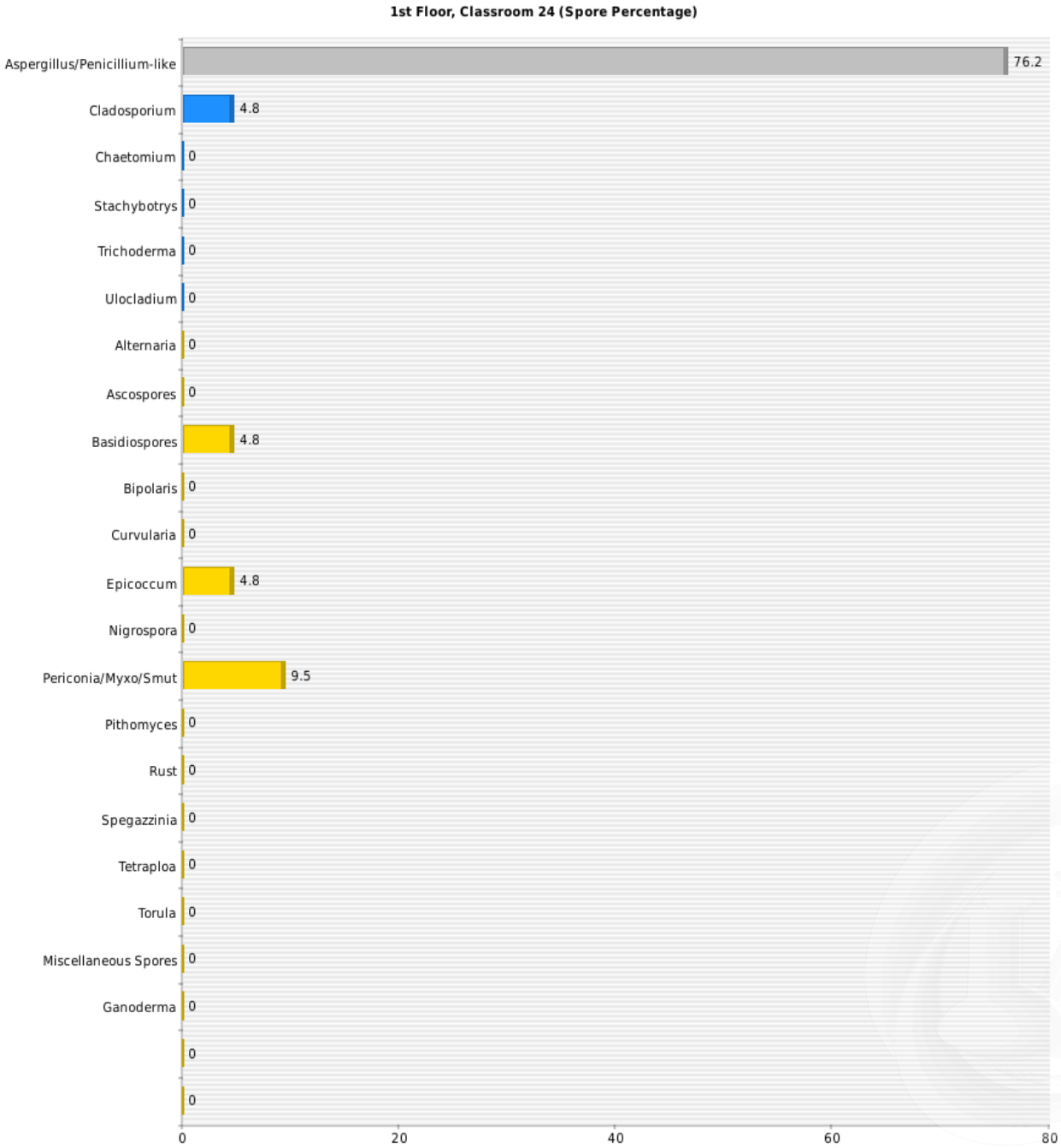

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# MOLD AIR SAMPLE REPORT

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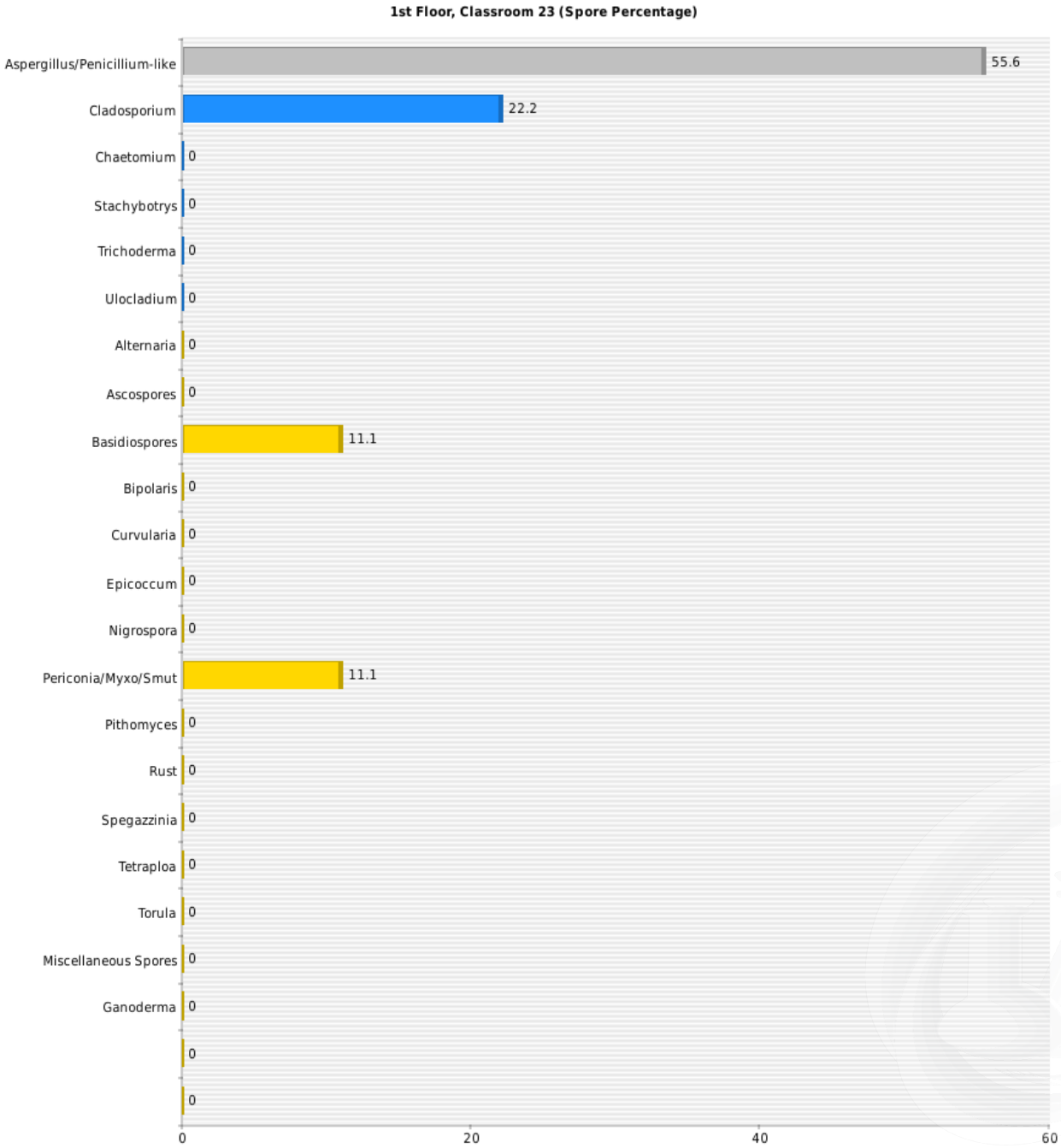

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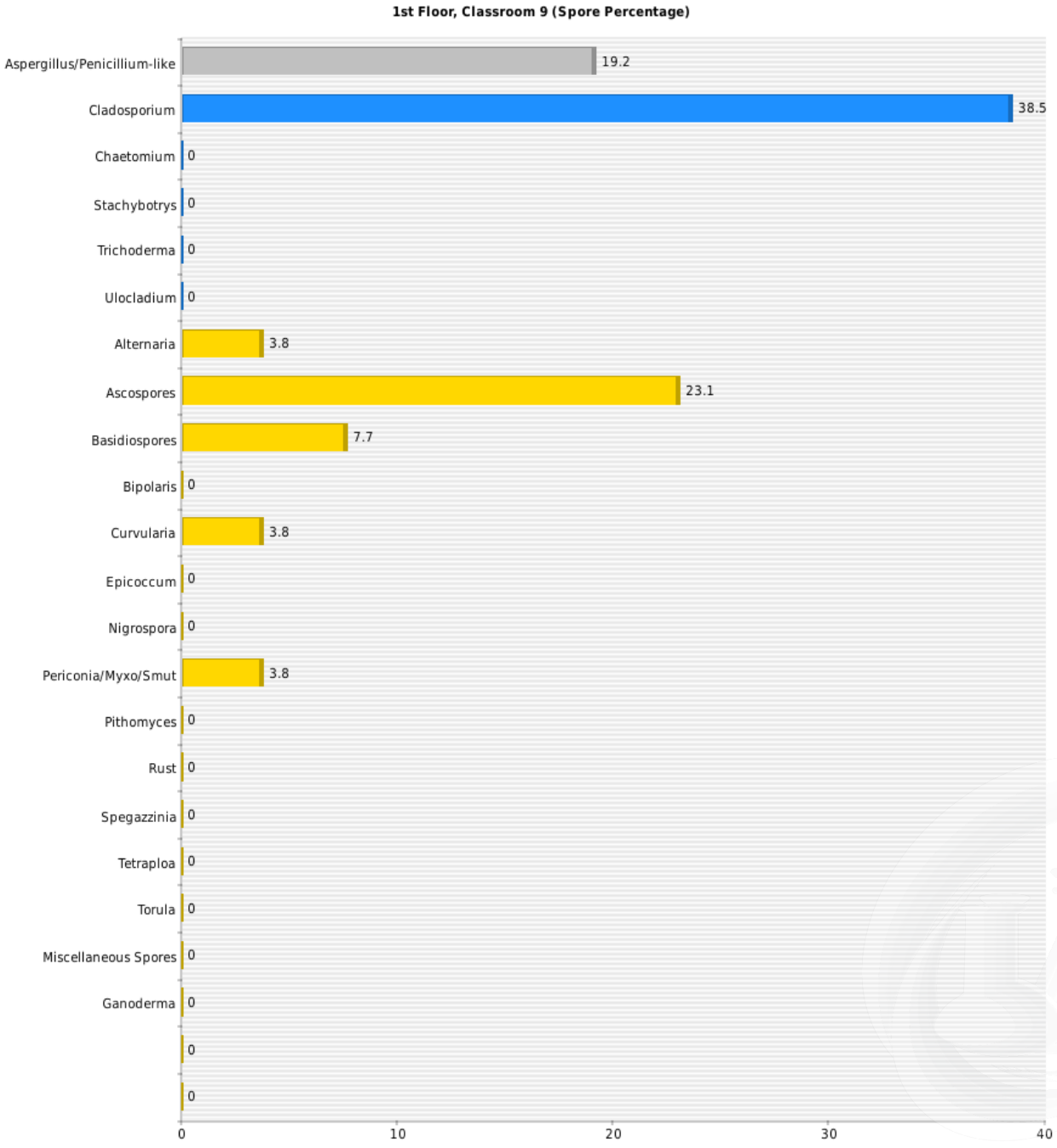

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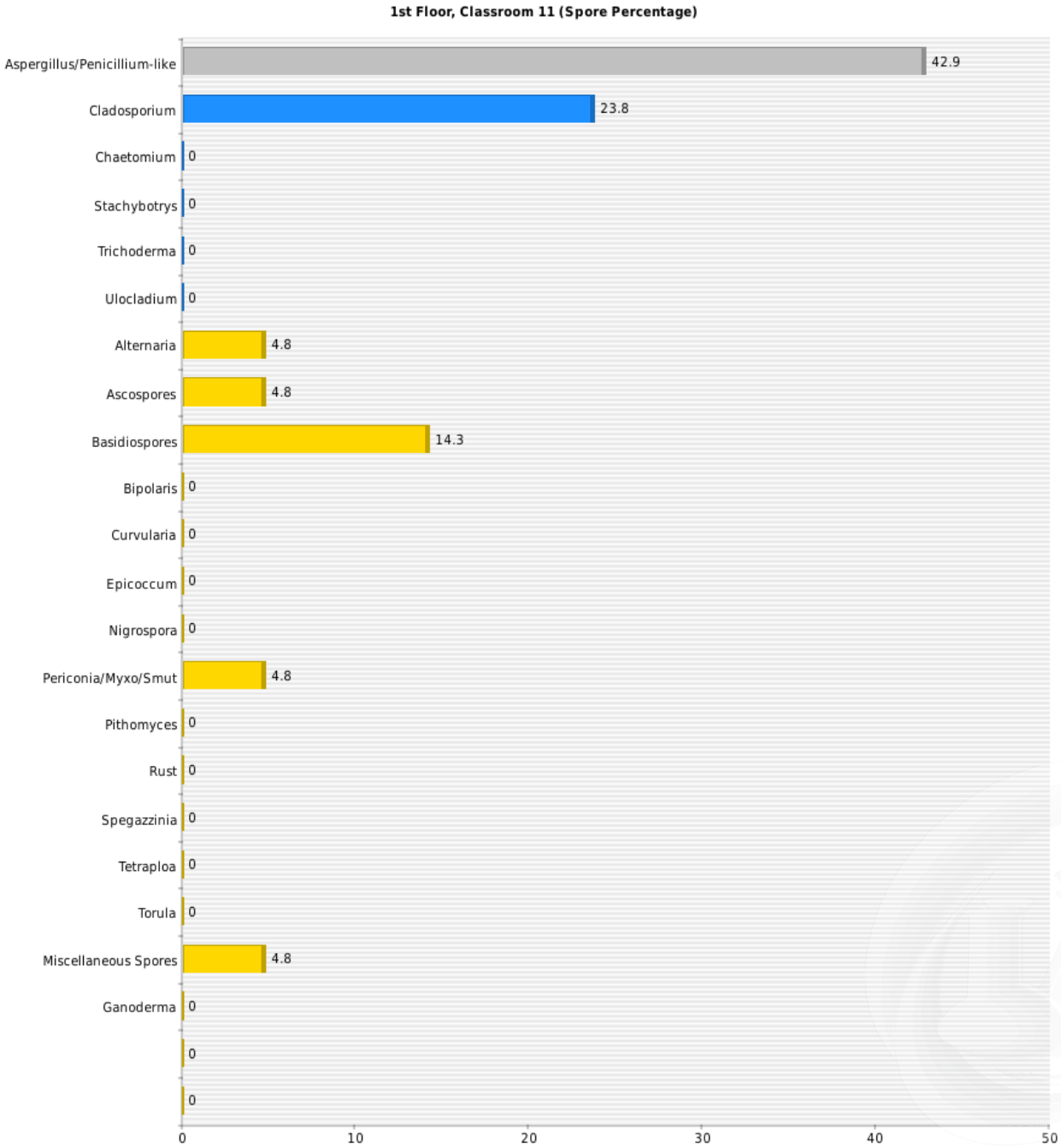

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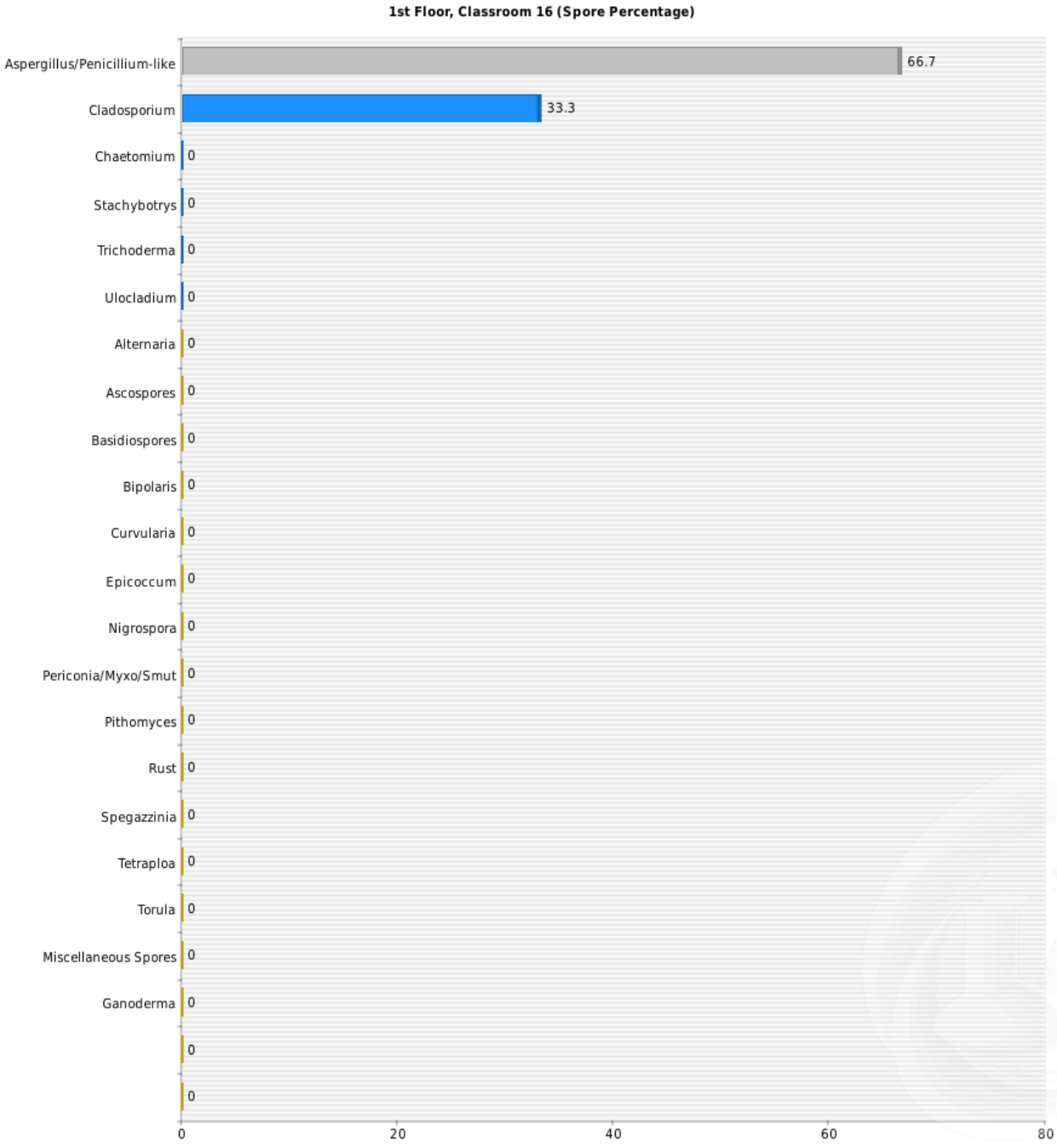

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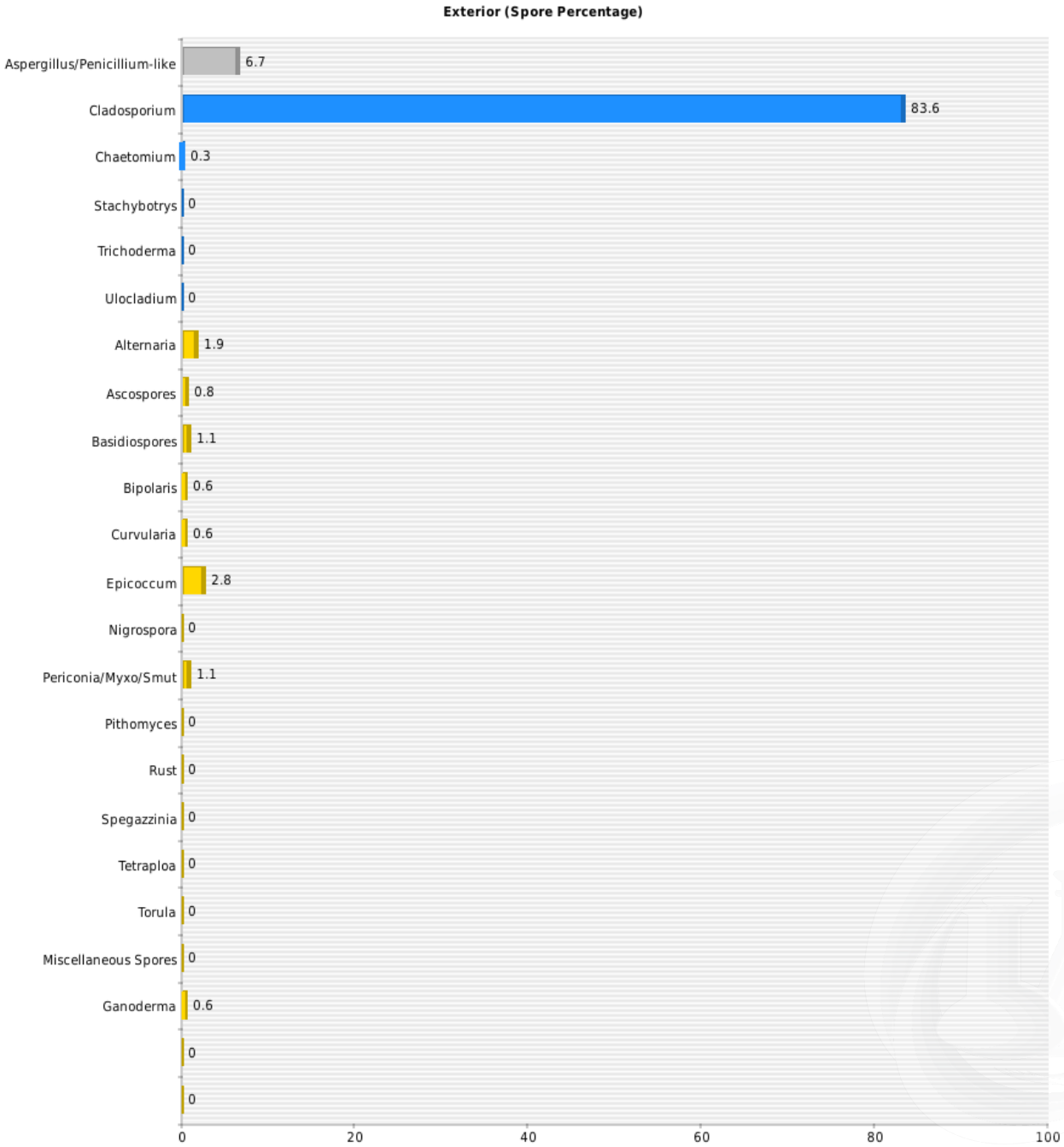

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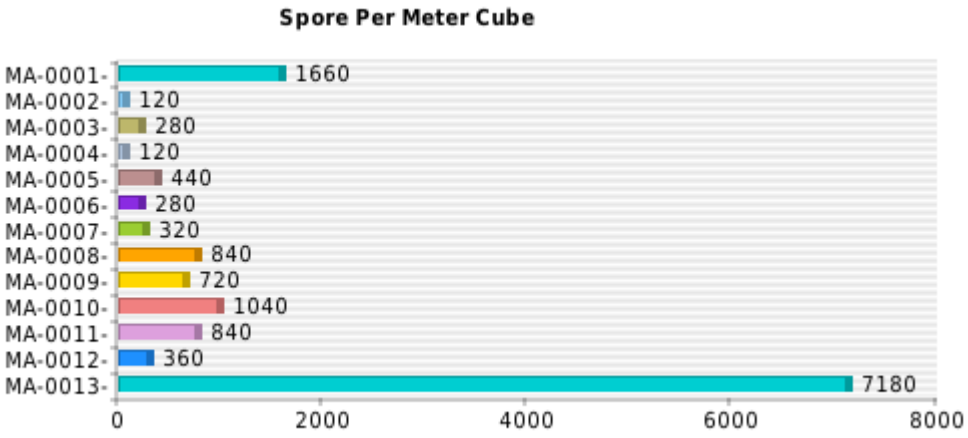

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| | | **Samples Analyzed:** | 13 |

## Understanding Sampling and Laboratory Methodologies

Spore Trap Cassettes (Air Sampling media) are unique air sampling cassettes specifically designed for the rapid collection of a wide range of airborne aerosols including mold spores, pollen, insect parts, skin cell fragments, and inorganic particulate. The analytical results obtained from include both viable and non-viable spores. Some fungal groups produce similar spore types that are difficult to be distinguished only by direct microscopic examination like Aspergillus/Penicillium, or other identical spore. Similarly other spore types may lack distinguishing features that aid in their identification like hyphae. To avoid any confusion these types are grouped into larger categories such as Ascospores or Basidiospores.

*Examination Technique:*

AIH Laboratory Fungal Air Sample Reports data results are provided in spore counts per cubic meter of air. Fungal spores are identified and grouped by morphological characteristics including color, shape, size, and fruiting structures (if present) which are compared to published mycological identification keys and texts.

*Qualitative Analysis:*

It is difficult to precisely measure some analytical findings which aid in assessing the overall sample condition and density. Qualitative analysis is used to determine concentration of Skin Fragments, Background and Hyphal fragments. A number between 1-5 is used to rate the concentrations. Each number increase in rate adds a range of 1-20% Please understand that higher the number of skin fragments and background particle it may obscure small spore. Overloaded in comments indicate that sample failed to meet visibility density criteria and thus the quantitate analysis was not performed on the particular sample.

*Analysis:*

This data is gathered by visual and statistical analysis performed on the specimen. The quantitative data is adhered to strict quality control procedures. This strict quality is achieved by reanalyzing at least 10% of samples. The results from original analysis and re-read must be close with only minor variation. If results do not fall under minor variation criteria, then all samples must be analyzed again. The quantitative data is used to produce the final result in spore(s) per meter cube.

## About AIH Laboratory

AIH Laboratory is renowned laboratory located in Anaheim, CA. The staff at AIH Laboratory is recognized by State, Federal agencies and International Accrediting Bodies. AIH Laboratory employs sophisticated techniques, strong professional experience along with recognized testing procedures in the industry. AIH Laboratory participates in Inter-laboratory testing program with various national laboratories to ensure conformance with newly adapted technologies, research and methodologies. The samples received by AIH Laboratory are processed under strict quality control procedures to avoid any discrepancy in results. The data generated by the laboratory from the analytical observation of the specimens is presented in a format that is easily understood by anyone with a science background. An environmental expert will accurately interpret the data and findings detailed in this report.

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2112851 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 23 |
| | | **Samples Analyzed:** | 23 |

| **Laboratory Sample ID:** | **211285101** | **211285102** | **211285103** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0014** | **MA-0015** | **MA-0016** |
| **Sample Location:** | **Exterior** | **1st Floor, Classroom 5** | **1st Floor, Classroom 6** |
| **Comments:** | *None* | *None* | *None* |

*Quantitative Analysis*

| | | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Inside/Outside** | Aspergillus/Penicillium-like | 13 | 260 | 13.3 | 3 | 120 | 60 | 10 | 400 | 47.6 |
| | Cladosporium | 59 | 1180 | 60.2 | - | - | - | 6 | 240 | 28.6 |
| **Water Damage Indication** | Chaetomium | - | - | - | - | - | - | - | - | - |
| | Stachybotrys | - | - | - | - | - | - | - | - | - |
| | Trichoderma | - | - | - | - | - | - | - | - | - |
| | Ulocladium | - | - | - | - | - | - | - | - | - |
| **Outdoor Environment** | Alternaria | 1 | 20 | 1 | - | - | - | - | - | - |
| | Ascospores | 6 | 120 | 6.1 | - | - | - | - | - | - |
| | Basidiospores | 7 | 140 | 7.1 | 1 | 40 | 20 | - | - | - |
| | Bipolaris | 1 | 20 | 1 | - | - | - | - | - | - |
| | Curvularia | - | - | - | - | - | - | - | - | - |
| | Epicoccum | 1 | 20 | 1 | - | - | - | - | - | - |
| | Nigrospora | - | - | - | - | - | - | - | - | - |
| | Periconia/Myxo/Smut | 10 | 200 | 10.2 | 1 | 40 | 20 | 5 | 200 | 23.8 |
| | Pithomyces | - | - | - | - | - | - | - | - | - |
| | Rust | - | - | - | - | - | - | - | - | - |
| | Spegazzinia | - | - | - | - | - | - | - | - | - |
| | Tetraploa | - | - | - | - | - | - | - | - | - |
| | Torula | - | - | - | - | - | - | - | - | - |
| | Miscellaneous Spores | - | - | - | - | - | - | - | - | - |
| | Oidium | - | - | - | - | - | - | - | - | - |
| | Ganoderma | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | |
| | Total | 98 | 1960 | 100 | 5 | 200 | 100 | 21 | 840 | 100 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2112851 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 23 |
| | | **Samples Analyzed:** | 23 |

| **Laboratory Sample ID:** | **211285101** | **211285102** | **211285103** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0014** | **MA-0015** | **MA-0016** |
| **Sample Location:** | **Exterior** | **1st Floor, Classroom 5** | **1st Floor, Classroom 6** |

*Sample Collection Data*

| | | | |
|---|---|---|---|
| Total Time: | | | |
| Flow Rate: | | | |
| Volume: | 150 | 75 | 75 |

*Qualitative Analysis*

| | | | |
|---|---|---|---|
| Skin Fragments- 1 to 5 (low to high): | 2 | 1 | 2 |
| Background/m3- 1 to 5 (low to high): | 5 | 2 | 3 |
| Hyphal Fragments- 1 to 5 (low to high): | 1 | 1 | 1 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2112851 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 23 |
| | | **Samples Analyzed:** | 23 |

| | | | |
|---|---|---|---|
| **Laboratory Sample ID:** | **211285104** | **211285105** | **211285106** |
| **Client Sample ID:** | **MA-0017** | **MA-0018** | **MA-0019** |
| **Sample Location:** | **Exterior** | **Exterior** | **1st Floor, Classroom 2** |
| **Comments:** | *None* | *None* | *None* |

*Quantitative Analysis*

| | | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Inside/Outside** | Aspergillus/Penicillium-like | 104 | 2080 | 53.9 | 20 | 400 | 11.8 | 13 | 520 | 54.2 |
| | Cladosporium | 58 | 1160 | 30.1 | 62 | 1240 | 36.5 | 1 | 40 | 4.2 |
| **Water Damage Indication** | Chaetomium | - | - | - | - | - | - | - | - | - |
| | Stachybotrys | - | - | - | - | - | - | - | - | - |
| | Trichoderma | - | - | - | - | - | - | - | - | - |
| | Ulocladium | - | - | - | - | - | - | - | - | - |
| **Outdoor Environment** | Alternaria | 1 | 20 | 0.5 | 2 | 40 | 1.2 | - | - | - |
| | Ascospores | 1 | 20 | 0.5 | 4 | 80 | 2.4 | 1 | 40 | 4.2 |
| | Basidiospores | 2 | 40 | 1 | 71 | 1420 | 41.8 | 6 | 240 | 25 |
| | Bipolaris | 3 | 60 | 1.6 | 2 | 40 | 1.2 | - | - | - |
| | Curvularia | - | - | - | - | - | - | - | - | - |
| | Epicoccum | 1 | 20 | 0.5 | - | - | - | 1 | 40 | 4.2 |
| | Nigrospora | 2 | 40 | 1 | - | - | - | - | - | - |
| | Periconia/Myxo/Smut | 7 | 140 | 3.6 | 5 | 100 | 2.9 | 2 | 80 | 8.3 |
| | Pithomyces | - | - | - | - | - | - | - | - | - |
| | Rust | - | - | - | - | - | - | - | - | - |
| | Spegazzinia | - | - | - | - | - | - | - | - | - |
| | Tetraploa | - | - | - | - | - | - | - | - | - |
| | Torula | 7 | 140 | 3.6 | - | - | - | - | - | - |
| | Miscellaneous Spores | - | - | - | - | - | - | - | - | - |
| | Oidium | 7 | 140 | 3.6 | - | - | - | - | - | - |
| | Ganoderma | - | - | - | 4 | 80 | 2.4 | - | - | - |
| | | | | | | | | | | |
| | Total | 193 | 3860 | 100 | 170 | 3400 | 100 | 24 | 960 | 100 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2112851 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 23 |
| | | **Samples Analyzed:** | 23 |

| **Laboratory Sample ID:** | **211285104** | **211285105** | **211285106** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0017** | **MA-0018** | **MA-0019** |
| **Sample Location:** | **Exterior** | **Exterior** | **1st Floor, Classroom 2** |

*Sample Collection Data*

| | | | |
|---|---|---|---|
| Total Time: | | | |
| Flow Rate: | | | |
| Volume: | 150 | 150 | 75 |

*Qualitative Analysis*

| | | | |
|---|---|---|---|
| Skin Fragments- 1 to 5 (low to high): | 1 | 2 | 2 |
| Background/m3- 1 to 5 (low to high): | 5 | 5 | 4 |
| Hyphal Fragments- 1 to 5 (low to high): | 2 | 2 | 1 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2112851 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 23 |
| | | **Samples Analyzed:** | 23 |

| **Laboratory Sample ID:** | **211285107** | **211285108** | **211285109** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0020** | **MA-0021** | **MA-0022** |
| **Sample Location:** | **1st Floor, Classroom 3** | **1st Floor, Classroom 4** | **1st Floor, VI-100** |
| **Comments:** | *None* | *None* | *None* |

*Quantitative Analysis*

| | | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Inside/Outside** | Aspergillus/Penicillium-like | 6 | 240 | 66.7 | 5 | 200 | 50 | 6 | 240 | 40 |
| | Cladosporium | 1 | 40 | 11.1 | 1 | 40 | 10 | 8 | 320 | 53.3 |
| **Water Damage Indication** | Chaetomium | - | - | - | - | - | - | - | - | - |
| | Stachybotrys | - | - | - | - | - | - | - | - | - |
| | Trichoderma | - | - | - | - | - | - | - | - | - |
| | Ulocladium | - | - | - | - | - | - | - | - | - |
| **Outdoor Environment** | Alternaria | - | - | - | - | - | - | - | - | - |
| | Ascospores | - | - | - | - | - | - | - | - | - |
| | Basidiospores | 1 | 40 | 11.1 | 4 | 160 | 40 | - | - | - |
| | Bipolaris | - | - | - | - | - | - | - | - | - |
| | Curvularia | - | - | - | - | - | - | - | - | - |
| | Epicoccum | - | - | - | - | - | - | - | - | - |
| | Nigrospora | - | - | - | - | - | - | - | - | - |
| | Periconia/Myxo/Smut | 1 | 40 | 11.1 | - | - | - | 1 | 40 | 6.7 |
| | Pithomyces | - | - | - | - | - | - | - | - | - |
| | Rust | - | - | - | - | - | - | - | - | - |
| | Spegazzinia | - | - | - | - | - | - | - | - | - |
| | Tetraploa | - | - | - | - | - | - | - | - | - |
| | Torula | - | - | - | - | - | - | - | - | - |
| | Miscellaneous Spores | - | - | - | - | - | - | - | - | - |
| | Oidium | - | - | - | - | - | - | - | - | - |
| | Ganoderma | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | |
| | Total | 9 | 360 | 100 | 10 | 400 | 100 | 15 | 600 | 100 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2112851 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 23 |
| | | **Samples Analyzed:** | 23 |

| **Laboratory Sample ID:** | **211285107** | **211285108** | **211285109** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0020** | **MA-0021** | **MA-0022** |
| **Sample Location:** | **1st Floor, Classroom 3** | **1st Floor, Classroom 4** | **1st Floor, VI-100** |

*Sample Collection Data*

| | | | |
|---|---|---|---|
| Total Time: | | | |
| Flow Rate: | | | |
| Volume: | 75 | 75 | 75 |

*Qualitative Analysis*

| | | | |
|---|---|---|---|
| Skin Fragments- 1 to 5 (low to high): | 1 | 1 | 2 |
| Background/m3- 1 to 5 (low to high): | 2 | 2 | 2 |
| Hyphal Fragments- 1 to 5 (low to high): | 1 | 1 | 1 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2112851 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 23 |
| | | **Samples Analyzed:** | 23 |

| | | | |
|---|---|---|---|
| **Laboratory Sample ID:** | **211285110** | **211285111** | **211285112** |
| **Client Sample ID:** | **MA-0023** | **MA-0024** | **MA-0025** |
| **Sample Location:** | **1st Floor, Classroom 7** | **1st Floor, Classroom 8** | **1st Floor, Classroom 10** |
| **Comments:** | *None* | *None* | *None* |

*Quantitative Analysis*

| | | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Inside/Outside** | Aspergillus/Penicillium-like | 8 | 320 | 53.3 | 7 | 280 | 53.8 | 9 | 360 | 64.3 |
| | Cladosporium | 3 | 120 | 20 | 2 | 80 | 15.4 | 2 | 80 | 14.3 |
| **Water Damage Indication** | Chaetomium | - | - | - | - | - | - | - | - | - |
| | Stachybotrys | - | - | - | - | - | - | - | - | - |
| | Trichoderma | - | - | - | - | - | - | - | - | - |
| | Ulocladium | - | - | - | - | - | - | - | - | - |
| **Outdoor Environment** | Alternaria | - | - | - | - | - | - | - | - | - |
| | Ascospores | 1 | 40 | 6.7 | - | - | - | - | - | - |
| | Basidiospores | 2 | 80 | 13.3 | 3 | 120 | 23.1 | 1 | 40 | 7.1 |
| | Bipolaris | - | - | - | - | - | - | - | - | - |
| | Curvularia | - | - | - | - | - | - | - | - | - |
| | Epicoccum | - | - | - | 1 | 40 | 7.7 | - | - | - |
| | Nigrospora | - | - | - | - | - | - | - | - | - |
| | Periconia/Myxo/Smut | 1 | 40 | 6.7 | - | - | - | 2 | 80 | 14.3 |
| | Pithomyces | - | - | - | - | - | - | - | - | - |
| | Rust | - | - | - | - | - | - | - | - | - |
| | Spegazzinia | - | - | - | - | - | - | - | - | - |
| | Tetraploa | - | - | - | - | - | - | - | - | - |
| | Torula | - | - | - | - | - | - | - | - | - |
| | Miscellaneous Spores | - | - | - | - | - | - | - | - | - |
| | Oidium | - | - | - | - | - | - | - | - | - |
| | Ganoderma | - | - | - | - | - | - | - | - | - |
| | Total | 15 | 600 | 100 | 13 | 520 | 100 | 14 | 560 | 100 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2112851 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 23 |
| | | **Samples Analyzed:** | 23 |

| **Laboratory Sample ID:** | **211285110** | **211285111** | **211285112** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0023** | **MA-0024** | **MA-0025** |
| **Sample Location:** | **1st Floor, Classroom 7** | **1st Floor, Classroom 8** | **1st Floor, Classroom 10** |

*Sample Collection Data*

| | | | |
|---|---|---|---|
| Total Time: | | | |
| Flow Rate: | | | |
| Volume: | 75 | 75 | 75 |

*Qualitative Analysis*

| | | | |
|---|---|---|---|
| Skin Fragments- 1 to 5 (low to high): | 2 | 2 | 1 |
| Background/m3- 1 to 5 (low to high): | 3 | 3 | 2 |
| Hyphal Fragments- 1 to 5 (low to high): | 1 | 1 | 1 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2112851 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 23 |
| | | **Samples Analyzed:** | 23 |

| **Laboratory Sample ID:** | **211285113** | **211285114** | **211285115** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0026** | **MA-0027** | **MA-0028** |
| **Sample Location:** | **1st Floor, Classroom 12** | **1st Floor, Classroom 13** | **1st Floor, Classroom 17** |
| **Comments:** | *None* | *None* | *None* |

*Quantitative Analysis*

| | | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Inside/Outside** | Aspergillus/Penicillium-like | 9 | 360 | 56.3 | 3 | 120 | 33.3 | 7 | 280 | 63.6 |
| | Cladosporium | - | - | - | - | - | - | 1 | 40 | 9.1 |
| **Water Damage Indication** | Chaetomium | - | - | - | - | - | - | - | - | - |
| | Stachybotrys | - | - | - | - | - | - | - | - | - |
| | Trichoderma | - | - | - | - | - | - | - | - | - |
| | Ulocladium | - | - | - | - | - | - | - | - | - |
| **Outdoor Environment** | Alternaria | - | - | - | - | - | - | - | - | - |
| | Ascospores | 1 | 40 | 6.3 | 1 | 40 | 11.1 | - | - | - |
| | Basidiospores | 3 | 120 | 18.8 | 1 | 40 | 11.1 | 1 | 40 | 9.1 |
| | Bipolaris | - | - | - | - | - | - | - | - | - |
| | Curvularia | - | - | - | - | - | - | - | - | - |
| | Epicoccum | - | - | - | - | - | - | - | - | - |
| | Nigrospora | - | - | - | - | - | - | - | - | - |
| | Periconia/Myxo/Smut | 3 | 120 | 18.8 | 4 | 160 | 44.4 | 1 | 40 | 9.1 |
| | Pithomyces | - | - | - | - | - | - | - | - | - |
| | Rust | - | - | - | - | - | - | - | - | - |
| | Spegazzinia | - | - | - | - | - | - | - | - | - |
| | Tetraploa | - | - | - | - | - | - | - | - | - |
| | Torula | - | - | - | - | - | - | - | - | - |
| | Miscellaneous Spores | - | - | - | - | - | - | - | - | - |
| | Oidium | - | - | - | - | - | - | - | - | - |
| | Ganoderma | - | - | - | - | - | - | 1 | 40 | 9.1 |
| | | | | | | | | | | |
| | Total | 16 | 640 | 100 | 9 | 360 | 100 | 11 | 440 | 100 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2112851 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 23 |
| | | **Samples Analyzed:** | 23 |

| **Laboratory Sample ID:** | **211285113** | **211285114** | **211285115** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0026** | **MA-0027** | **MA-0028** |
| **Sample Location:** | **1st Floor, Classroom 12** | **1st Floor, Classroom 13** | **1st Floor, Classroom 17** |

*Sample Collection Data*

| | | | |
|---|---|---|---|
| Total Time: | | | |
| Flow Rate: | | | |
| Volume: | 75 | 75 | 75 |

*Qualitative Analysis*

| | | | |
|---|---|---|---|
| Skin Fragments- 1 to 5 (low to high): | 2 | 2 | 1 |
| Background/m3- 1 to 5 (low to high): | 3 | 3 | 3 |
| Hyphal Fragments- 1 to 5 (low to high): | 1 | 1 | 1 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2112851 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 23 |
| | | **Samples Analyzed:** | 23 |

| **Laboratory Sample ID:** | **211285116** | **211285117** | **211285118** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0029** | **MA-0030** | **MA-0031** |
| **Sample Location:** | **1st Floor, Classroom 18** | **1st Floor, Classroom 19** | **1st Floor, Classroom 20** |
| **Comments:** | *None* | *None* | *None* |

*Quantitative Analysis*

| | | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Inside/Outside** | Aspergillus/Penicillium-like | 7 | 280 | 70 | 4 | 160 | 80 | 5 | 200 | 33.3 |
| | Cladosporium | 1 | 40 | 10 | - | - | - | 6 | 240 | 40 |
| **Water Damage Indication** | Chaetomium | - | - | - | - | - | - | - | - | - |
| | Stachybotrys | - | - | - | - | - | - | - | - | - |
| | Trichoderma | - | - | - | - | - | - | - | - | - |
| | Ulocladium | - | - | - | - | - | - | - | - | - |
| **Outdoor Environment** | Alternaria | - | - | - | - | - | - | - | - | - |
| | Ascospores | - | - | - | - | - | - | 1 | 40 | 6.7 |
| | Basidiospores | 1 | 40 | 10 | - | - | - | 2 | 80 | 13.3 |
| | Bipolaris | 1 | 40 | 10 | 1 | 40 | 20 | - | - | - |
| | Curvularia | - | - | - | - | - | - | - | - | - |
| | Epicoccum | - | - | - | - | - | - | - | - | - |
| | Nigrospora | - | - | - | - | - | - | - | - | - |
| | Periconia/Myxo/Smut | - | - | - | - | - | - | 1 | 40 | 6.7 |
| | Pithomyces | - | - | - | - | - | - | - | - | - |
| | Rust | - | - | - | - | - | - | - | - | - |
| | Spegazzinia | - | - | - | - | - | - | - | - | - |
| | Tetraploa | - | - | - | - | - | - | - | - | - |
| | Torula | - | - | - | - | - | - | - | - | - |
| | Miscellaneous Spores | - | - | - | - | - | - | - | - | - |
| | Oidium | - | - | - | - | - | - | - | - | - |
| | Ganoderma | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | |
| | Total | 10 | 400 | 100 | 5 | 200 | 100 | 15 | 600 | 100 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2112851 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 23 |
| | | **Samples Analyzed:** | 23 |

| **Laboratory Sample ID:** | **211285116** | **211285117** | **211285118** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0029** | **MA-0030** | **MA-0031** |
| **Sample Location:** | **1st Floor, Classroom 18** | **1st Floor, Classroom 19** | **1st Floor, Classroom 20** |

*Sample Collection Data*

| | | | |
|---|---|---|---|
| Total Time: | | | |
| Flow Rate: | | | |
| Volume: | 75 | 75 | 75 |

*Qualitative Analysis*

| | | | |
|---|---|---|---|
| Skin Fragments- 1 to 5 (low to high): | 2 | 1 | 1 |
| Background/m3- 1 to 5 (low to high): | 3 | 3 | 3 |
| Hyphal Fragments- 1 to 5 (low to high): | 1 | 1 | 1 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2112851 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 23 |
| | | **Samples Analyzed:** | 23 |

| **Laboratory Sample ID:** | **211285119** | **211285120** | **211285121** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0032** | **MA-0033** | **MA-0034** |
| **Sample Location:** | **1st Floor, Classroom 14** | **1st Floor, Classroom 21** | **1st Floor, Classroom 22** |
| **Comments:** | *None* | *None* | *None* |

*Quantitative Analysis*

| | | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Inside/Outside** | Aspergillus/Penicillium-like | 13 | 520 | 92.9 | 4 | 160 | 80 | 10 | 400 | 66.7 |
| | Cladosporium | 1 | 40 | 7.1 | - | - | - | 5 | 200 | 33.3 |
| **Water Damage Indication** | Chaetomium | - | - | - | - | - | - | - | - | - |
| | Stachybotrys | - | - | - | - | - | - | - | - | - |
| | Trichoderma | - | - | - | - | - | - | - | - | - |
| | Ulocladium | - | - | - | - | - | - | - | - | - |
| **Outdoor Environment** | Alternaria | - | - | - | - | - | - | - | - | - |
| | Ascospores | - | - | - | - | - | - | - | - | - |
| | Basidiospores | - | - | - | - | - | - | - | - | - |
| | Bipolaris | - | - | - | - | - | - | - | - | - |
| | Curvularia | - | - | - | - | - | - | - | - | - |
| | Epicoccum | - | - | - | - | - | - | - | - | - |
| | Nigrospora | - | - | - | - | - | - | - | - | - |
| | Periconia/Myxo/Smut | - | - | - | 1 | 40 | 20 | - | - | - |
| | Pithomyces | - | - | - | - | - | - | - | - | - |
| | Rust | - | - | - | - | - | - | - | - | - |
| | Spegazzinia | - | - | - | - | - | - | - | - | - |
| | Tetraploa | - | - | - | - | - | - | - | - | - |
| | Torula | - | - | - | - | - | - | - | - | - |
| | Miscellaneous Spores | - | - | - | - | - | - | - | - | - |
| | Oidium | - | - | - | - | - | - | - | - | - |
| | Ganoderma | - | - | - | - | - | - | - | - | - |
| | Total | 14 | 560 | 100 | 5 | 200 | 100 | 15 | 600 | 100 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2112851 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 23 |
| | | **Samples Analyzed:** | 23 |

| **Laboratory Sample ID:** | **211285119** | **211285120** | **211285121** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0032** | **MA-0033** | **MA-0034** |
| **Sample Location:** | **1st Floor, Classroom 14** | **1st Floor, Classroom 21** | **1st Floor, Classroom 22** |

*Sample Collection Data*

| | | | |
|---|---|---|---|
| Total Time: | | | |
| Flow Rate: | | | |
| Volume: | 75 | 75 | 75 |

*Qualitative Analysis*

| | | | |
|---|---|---|---|
| Skin Fragments- 1 to 5 (low to high): | 1 | 1 | 1 |
| Background/m3- 1 to 5 (low to high): | 2 | 2 | 2 |
| Hyphal Fragments- 1 to 5 (low to high): | 1 | 1 | 1 |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2112851 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 23 |
| | | **Samples Analyzed:** | 23 |

| | | | |
|---|---|---|---|
| **Laboratory Sample ID:** | **211285122** | **211285123** | **XXXXXXXX** |
| **Client Sample ID:** | **MA-0035** | **MA-0036** | **XXXXXXXX** |
| **Sample Location:** | **1st Floor, Classroom 25** | **Exterior** | **XXXXXXXX** |
| **Comments:** | *None* | *None* | |

*Quantitative Analysis*

| | | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total | Raw Counts | Spores/m³ | % Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Inside/Outside** | Aspergillus/Penicillium-like | 5 | 200 | 41.7 | 35 | 700 | 22.7 | | | |
| | Cladosporium | 2 | 80 | 16.7 | 91 | 1820 | 59.1 | | | |
| **Water Damage Indication** | Chaetomium | - | - | - | - | - | - | | | |
| | Stachybotrys | - | - | - | - | - | - | | | |
| | Trichoderma | - | - | - | - | - | - | | | |
| | Ulocladium | - | - | - | - | - | - | | | |
| **Outdoor Environment** | Alternaria | 1 | 40 | 8.3 | 3 | 60 | 1.9 | | | |
| | Ascospores | 1 | 40 | 8.3 | 5 | 100 | 3.2 | | | |
| | Basidiospores | 3 | 120 | 25 | 9 | 180 | 5.8 | | | |
| | Bipolaris | - | - | - | - | - | - | | | |
| | Curvularia | - | - | - | - | - | - | | | |
| | Epicoccum | - | - | - | 3 | 60 | 1.9 | | | |
| | Nigrospora | - | - | - | - | - | - | | | |
| | Periconia/Myxo/Smut | - | - | - | 4 | 80 | 2.6 | | | |
| | Pithomyces | - | - | - | - | - | - | | | |
| | Rust | - | - | - | - | - | - | | | |
| | Spegazzinia | - | - | - | - | - | - | | | |
| | Tetraploa | - | - | - | - | - | - | | | |
| | Torula | - | - | - | - | - | - | | | |
| | Miscellaneous Spores | - | - | - | - | - | - | | | |
| | Oidium | - | - | - | 1 | 20 | 0.6 | | | |
| | Ganoderma | - | - | - | 3 | 60 | 1.9 | | | |
| | | | | | | | | | | |
| | Total | 12 | 480 | 100 | 154 | 3080 | 100 | | | |

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# MOLD AIR SAMPLE REPORT

| | | | |
|---|---|---|---|
| **Client Name:** | A-Tech Consulting Inc | **Report Status:** | Final Report |
| **Client Address:** | 1640 N. Batavia Street, Orange, CA 92867 | **AIHA EMPAT#:** | 203769 |
| **Project Number:** | 211881 | **Lab Batch Number:** | 2112851 |
| **Project Location:** | 700 South Lark Ellen Avenue, Azusa, CA 91702 | **Samples Received:** | 23 |
| | | **Samples Analyzed:** | 23 |

| **Laboratory Sample ID:** | **211285122** | **211285123** | **XXXXXXXX** |
|---|---|---|---|
| **Client Sample ID:** | **MA-0035** | **MA-0036** | **XXXXXXXX** |
| **Sample Location:** | **1st Floor, Classroom 25** | **Exterior** | **XXXXXXXX** |

*Sample Collection Data*

| | | | |
|---|---|---|---|
| Total Time: | | | |
| Flow Rate: | | | |
| Volume: | 75 | 150 | |

*Qualitative Analysis*

| | | | |
|---|---|---|---|
| Skin Fragments- 1 to 5 (low to high): | 2 | 2 | |
| Background/m3- 1 to 5 (low to high): | 3 | 5 | |
| Hyphal Fragments- 1 to 5 (low to high): | 1 | 1 | |

**Analyzed by:** Emily Chang **Signature:** **Date:** 08-11-2021

**Reviewed by:** Zubair Ahmed **Signature:** **Date:** 08-12-2021

No accepted regulatory standards currently exit by which to assess the health risks related to mold exposure. Molds have been associated with a variety of health effects and sensitivity varies from person to person. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. High levels of background particulate can obscure spores and other particulates leading to underestimation. "-" Denotes not detected. Background levels of 4 or 5 indicate an overload of background particulates, prohibiting accurate detection and quantification. AIH Laboratory maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by AIH Laboratory. AIH Laboratory bears no responsibility for sample collection activities or analytical method limitations. Spores/$m^3$ calculation based on volume information provided by client. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. All report format and design are copyright of AIH Laboratory 2021.
AIHA LAP, LLC Accredited Laboratory for Microbiology Laboratory ISO/IEC 17025:2005, Lab ID# 203769

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# MOLD AIR SAMPLE REPORT

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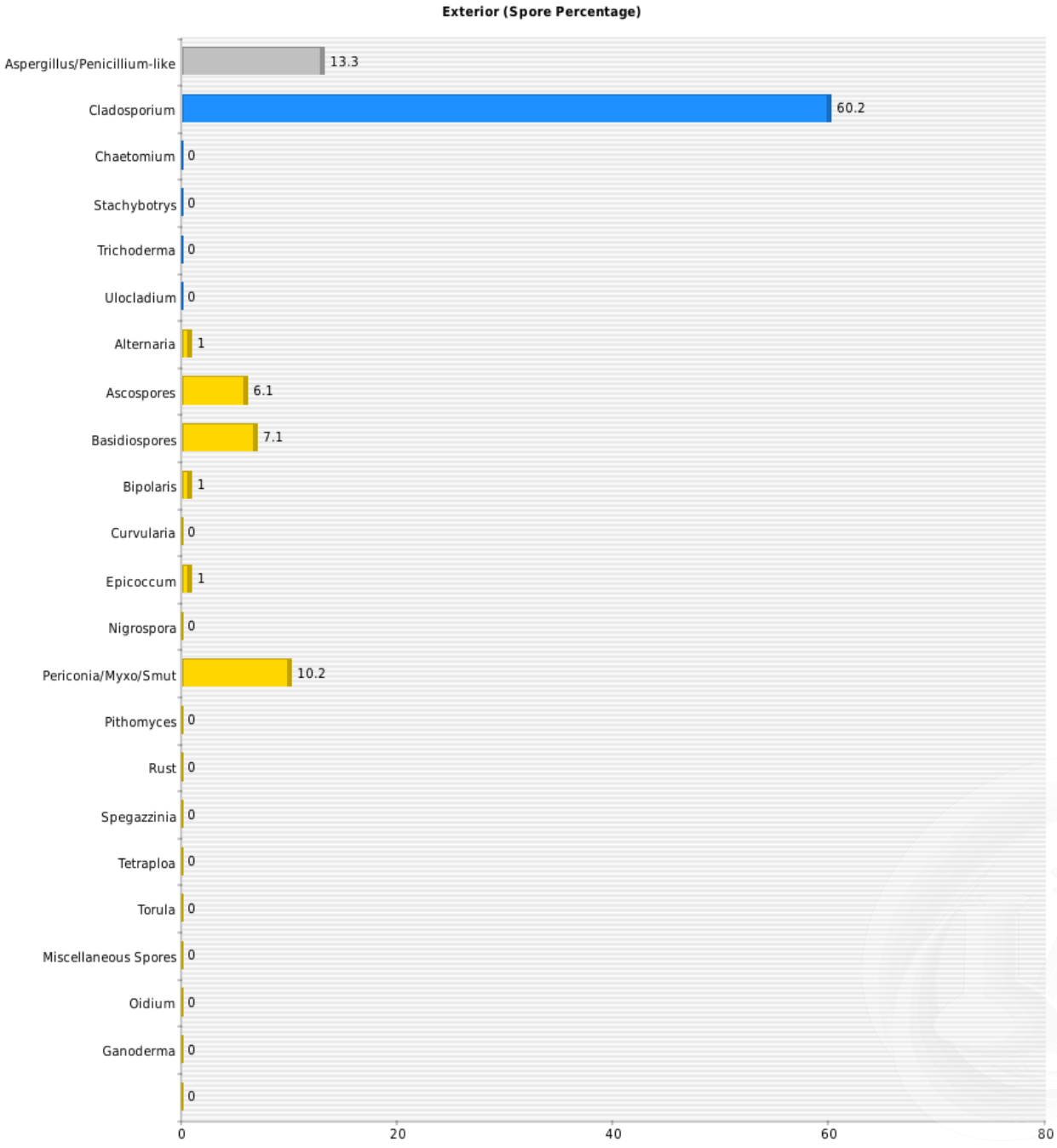

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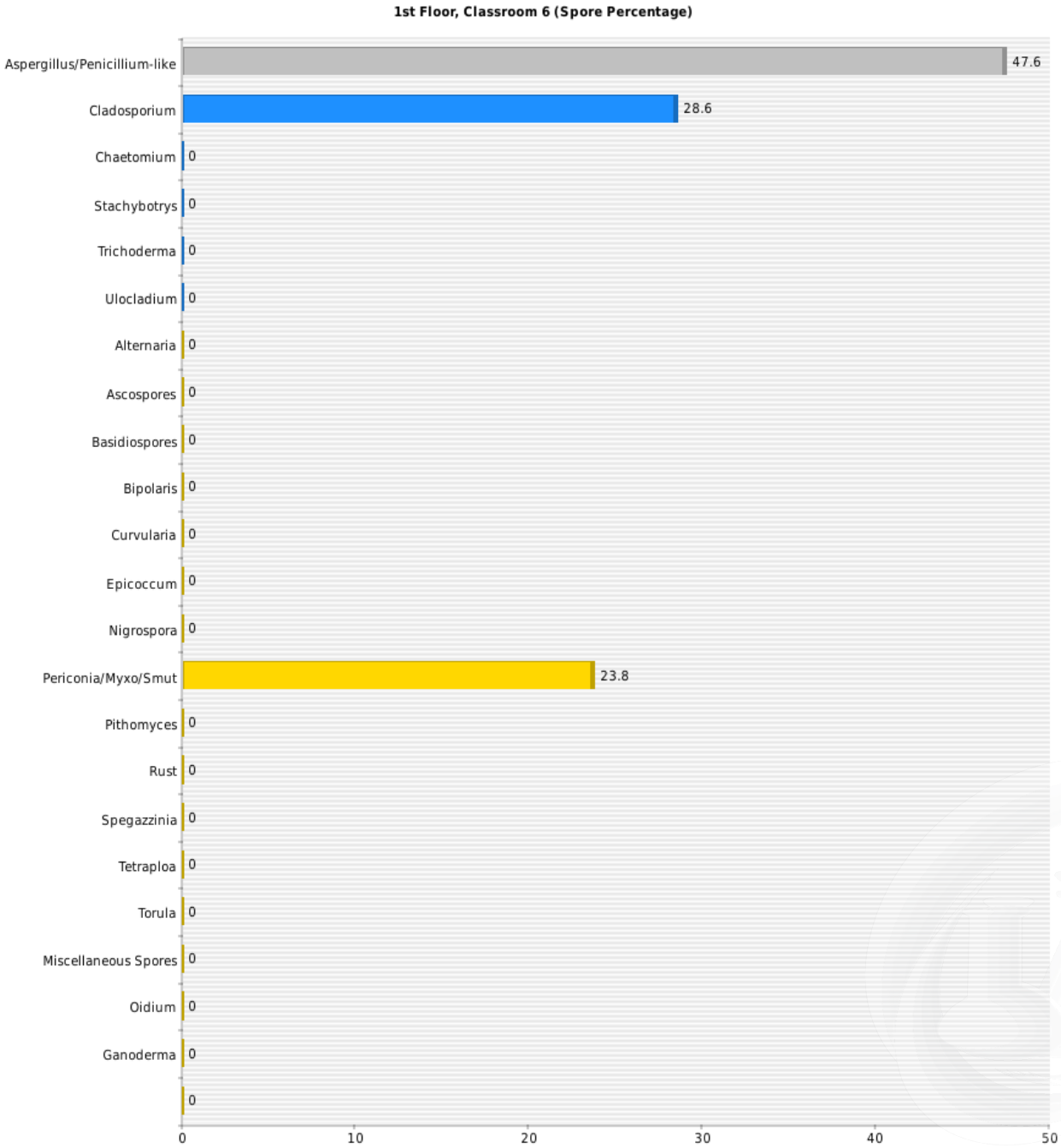

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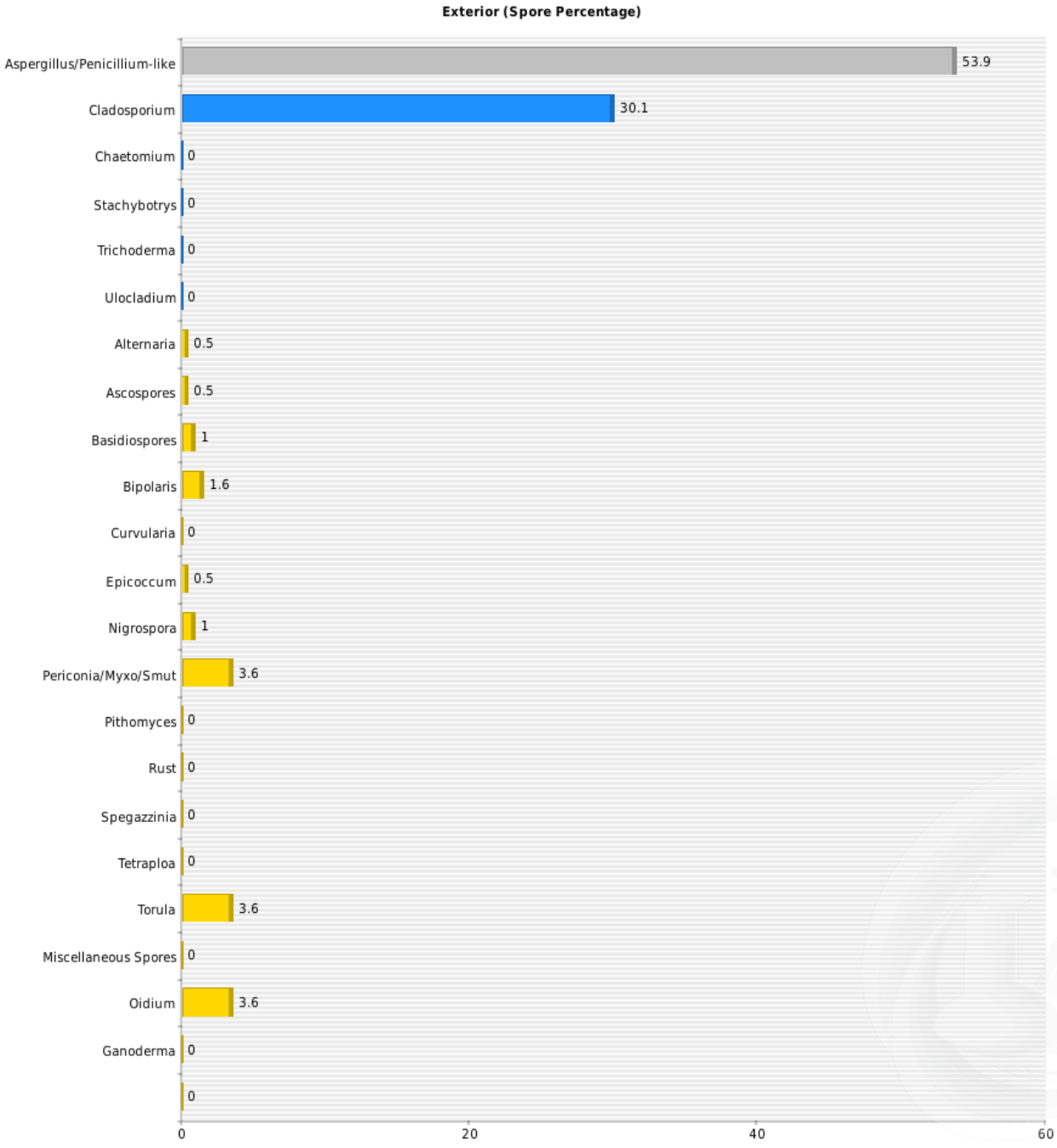

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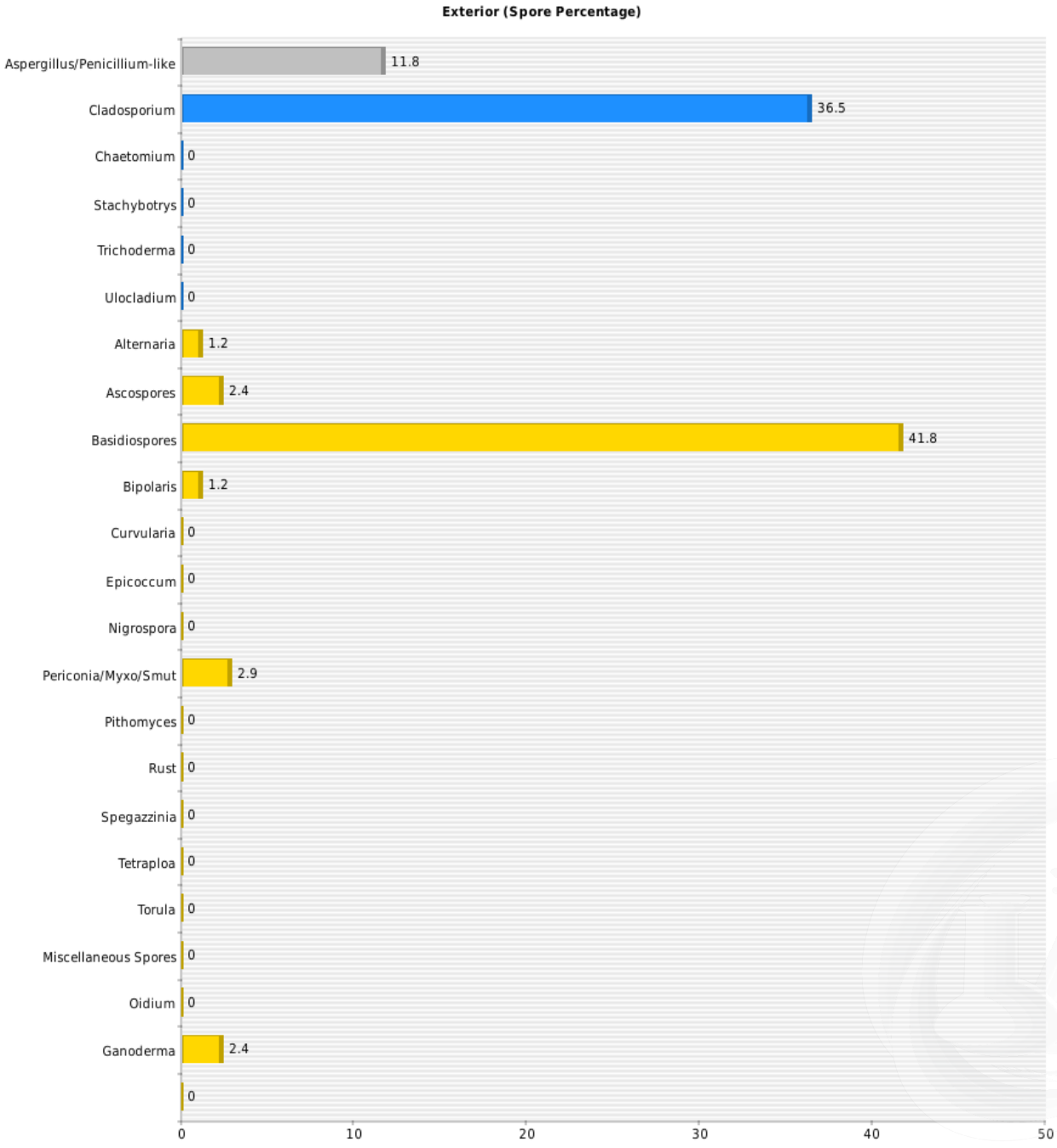

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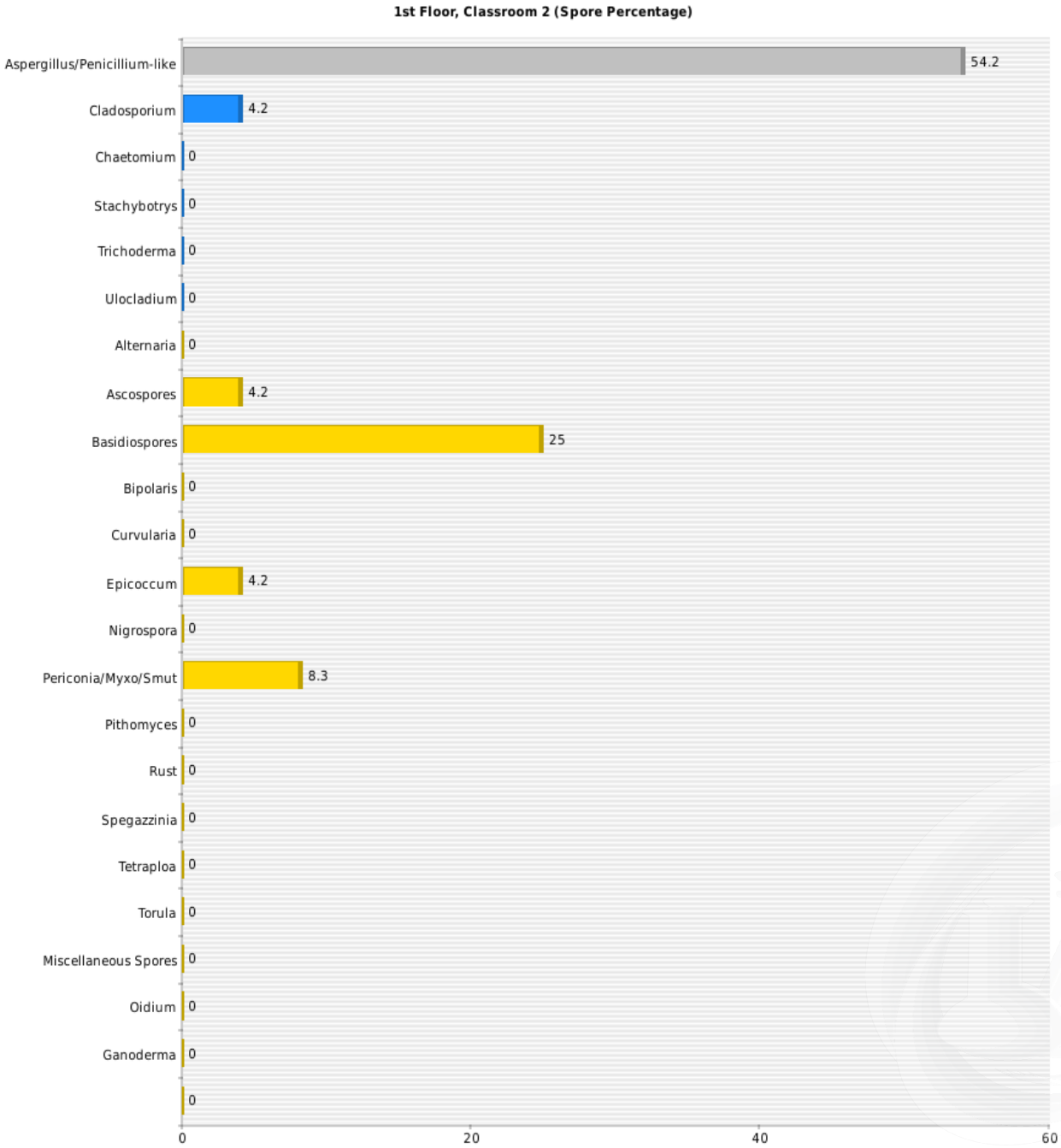

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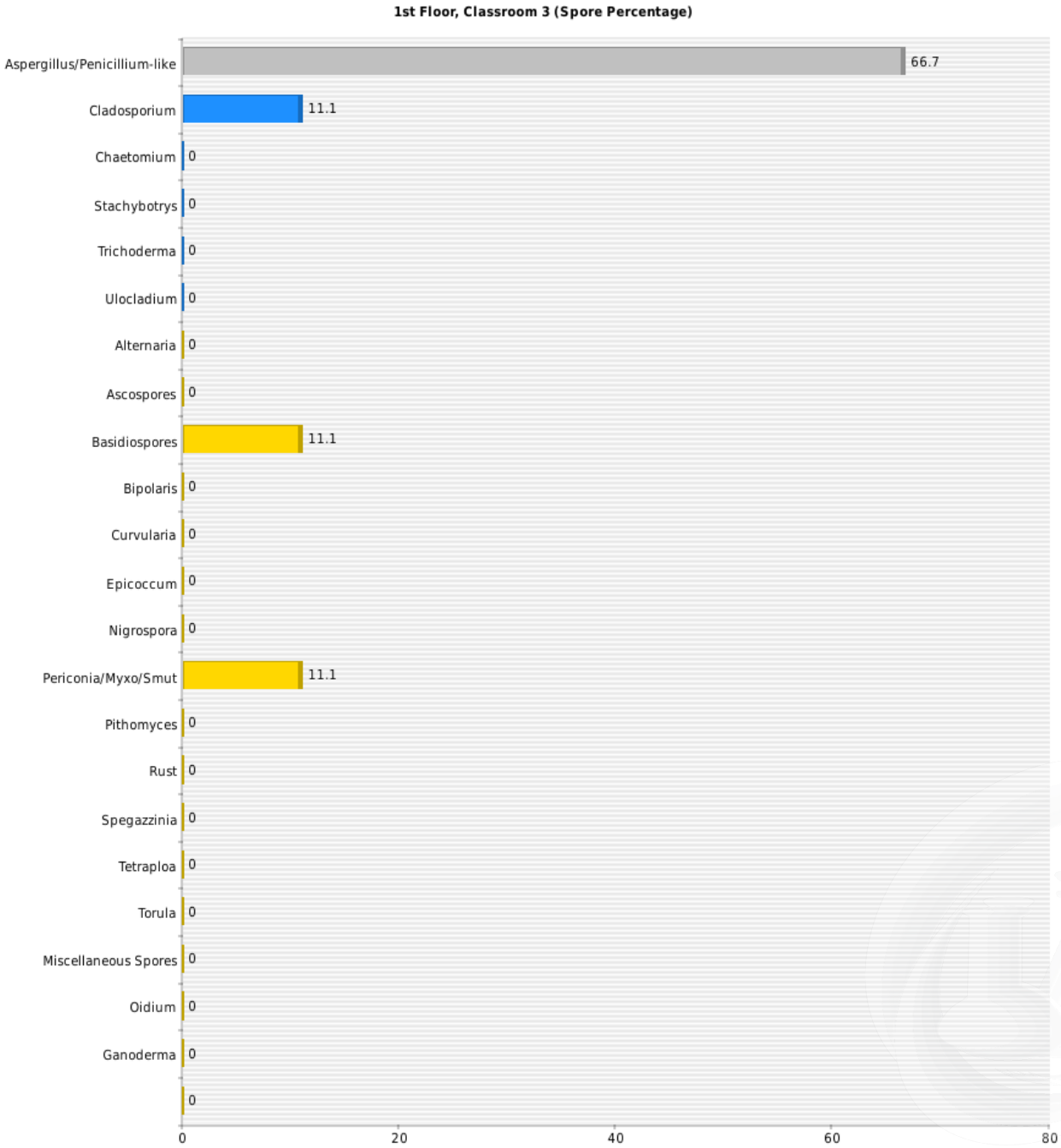

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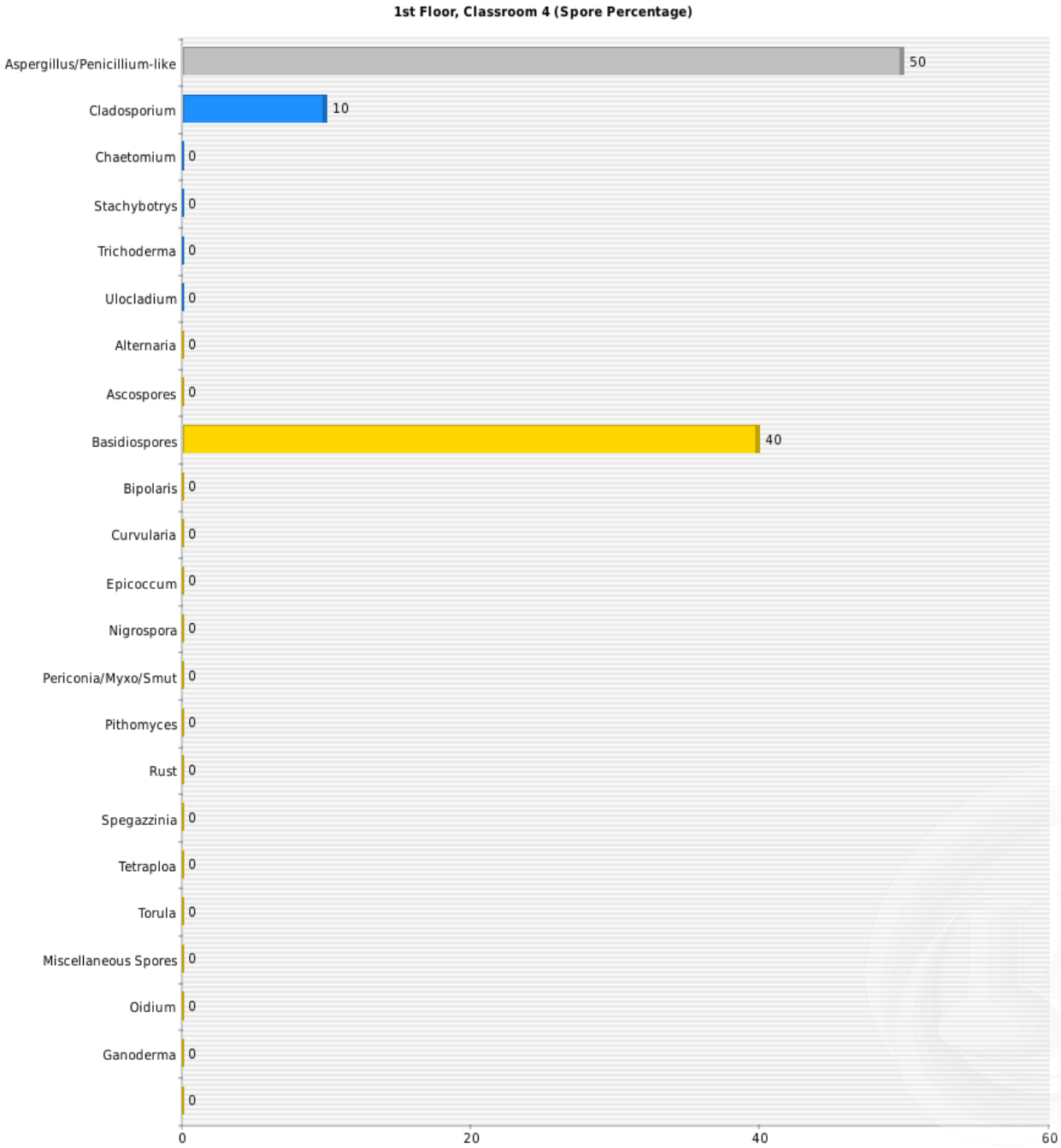

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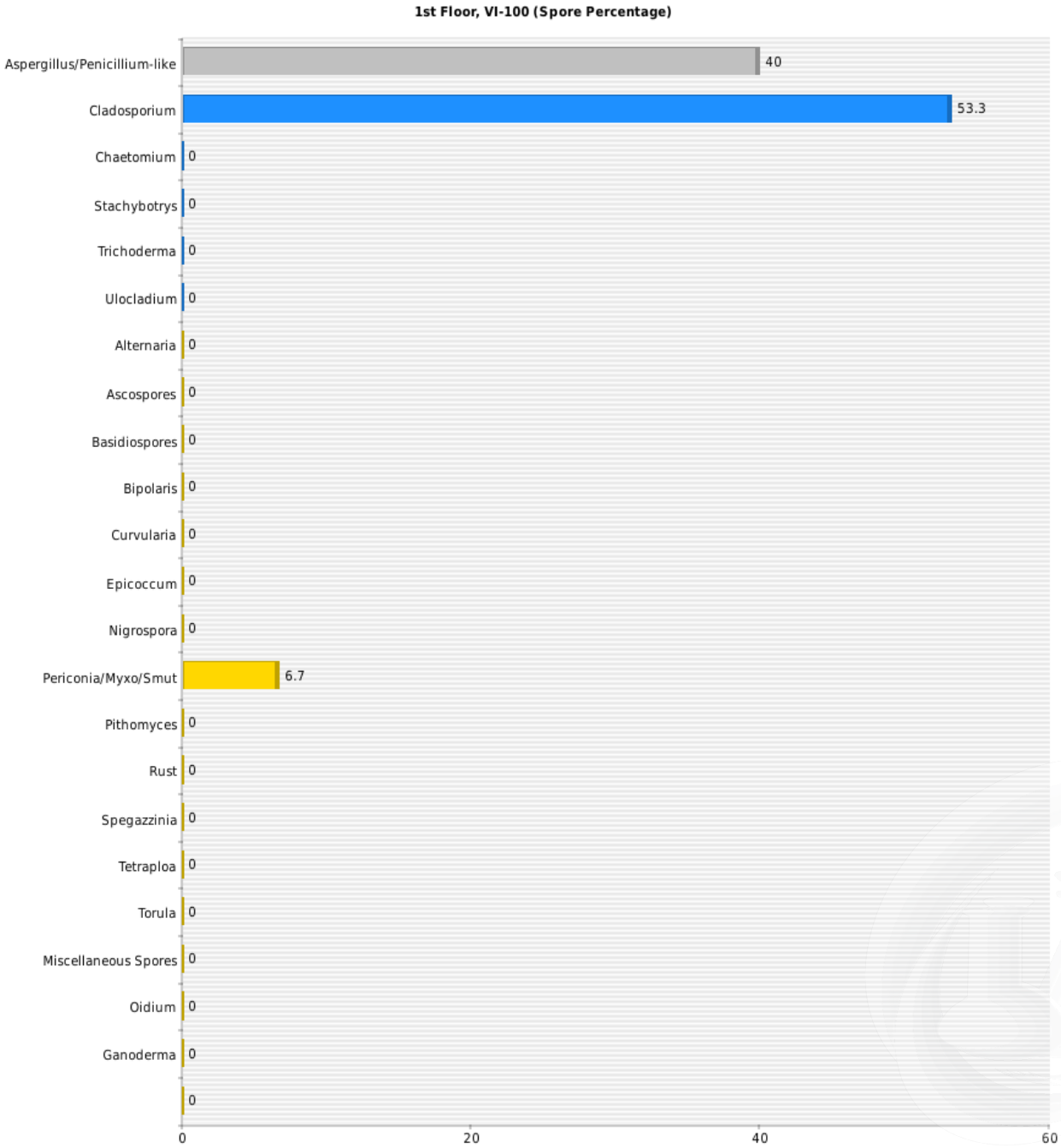

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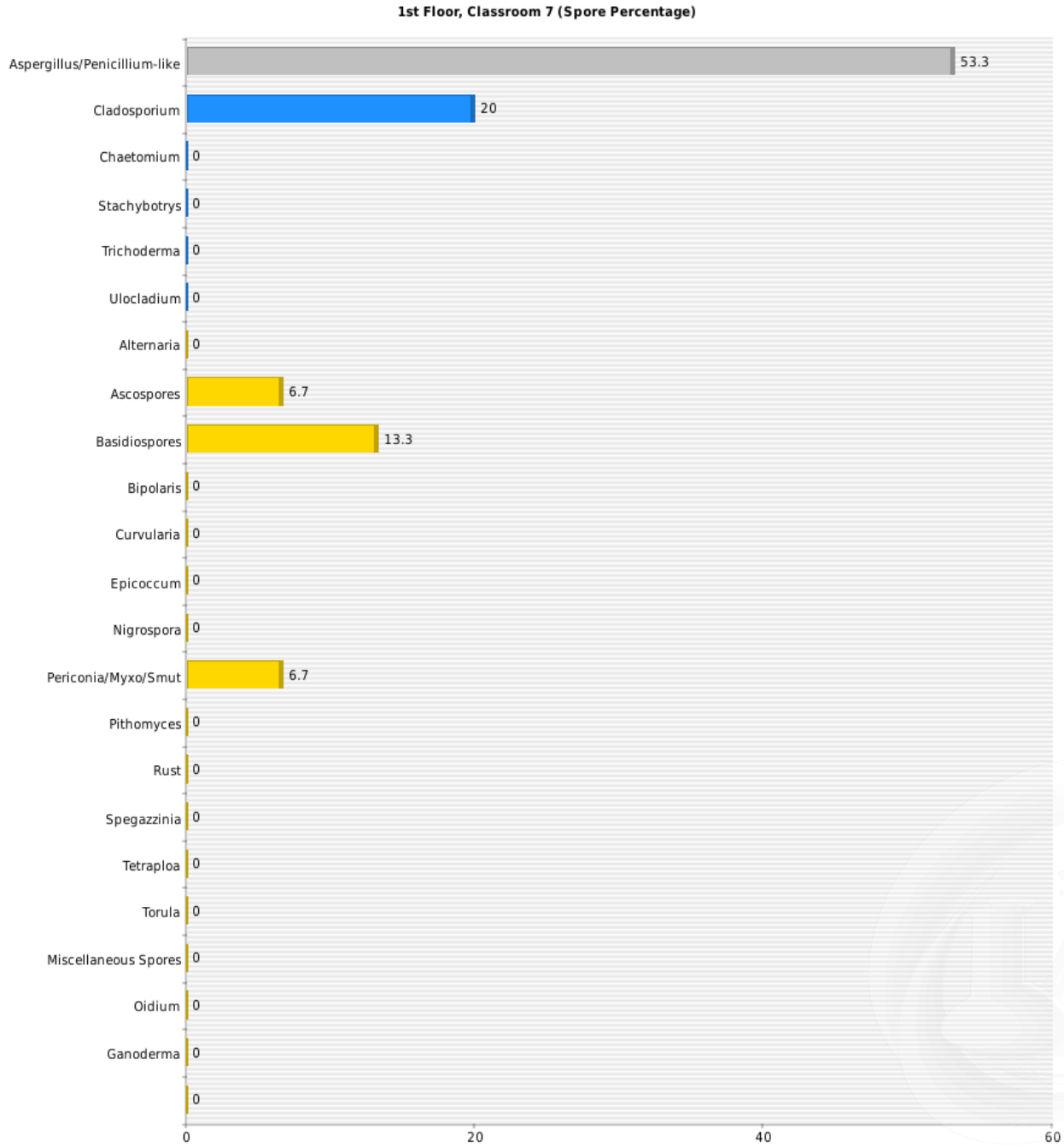

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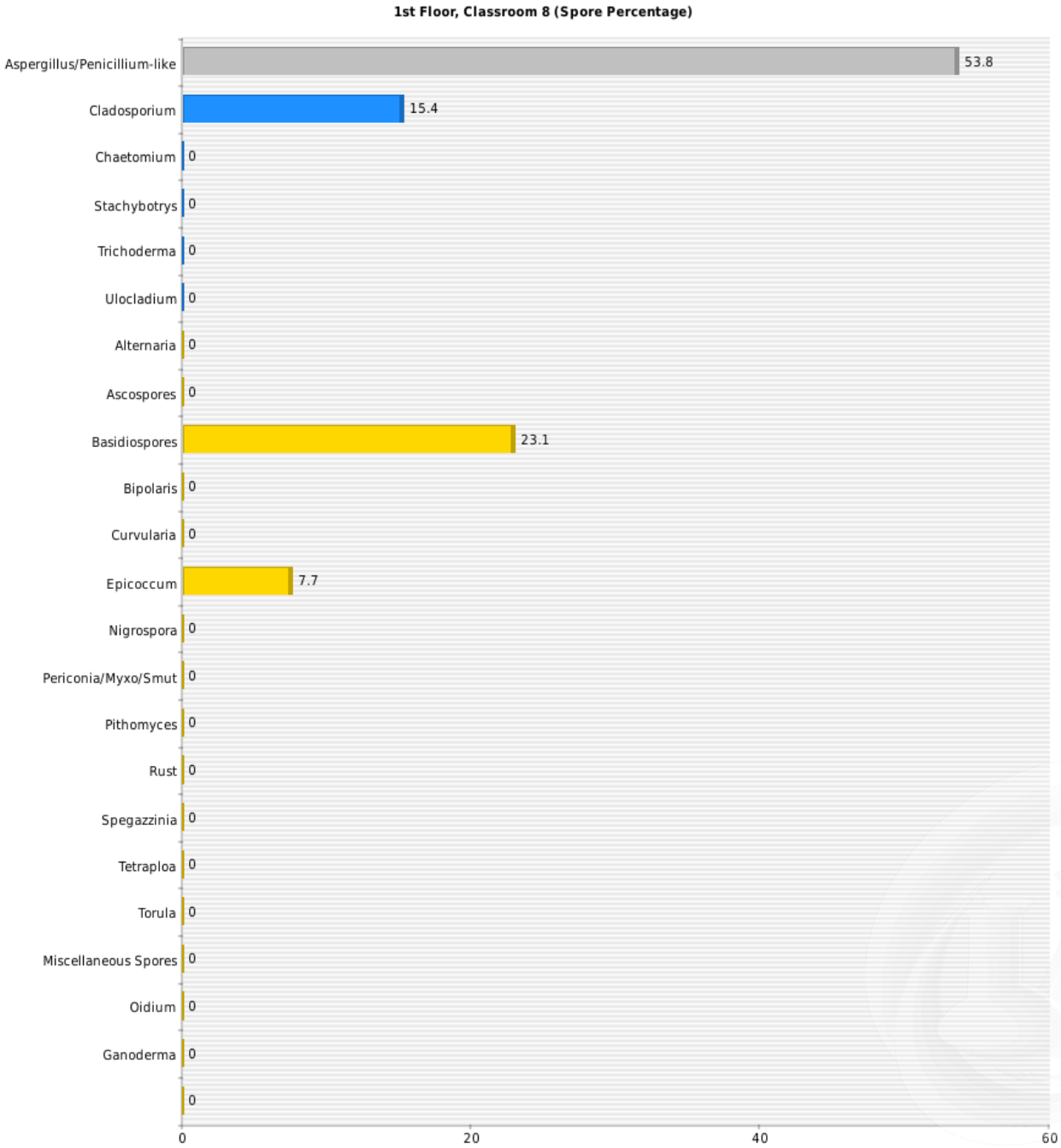

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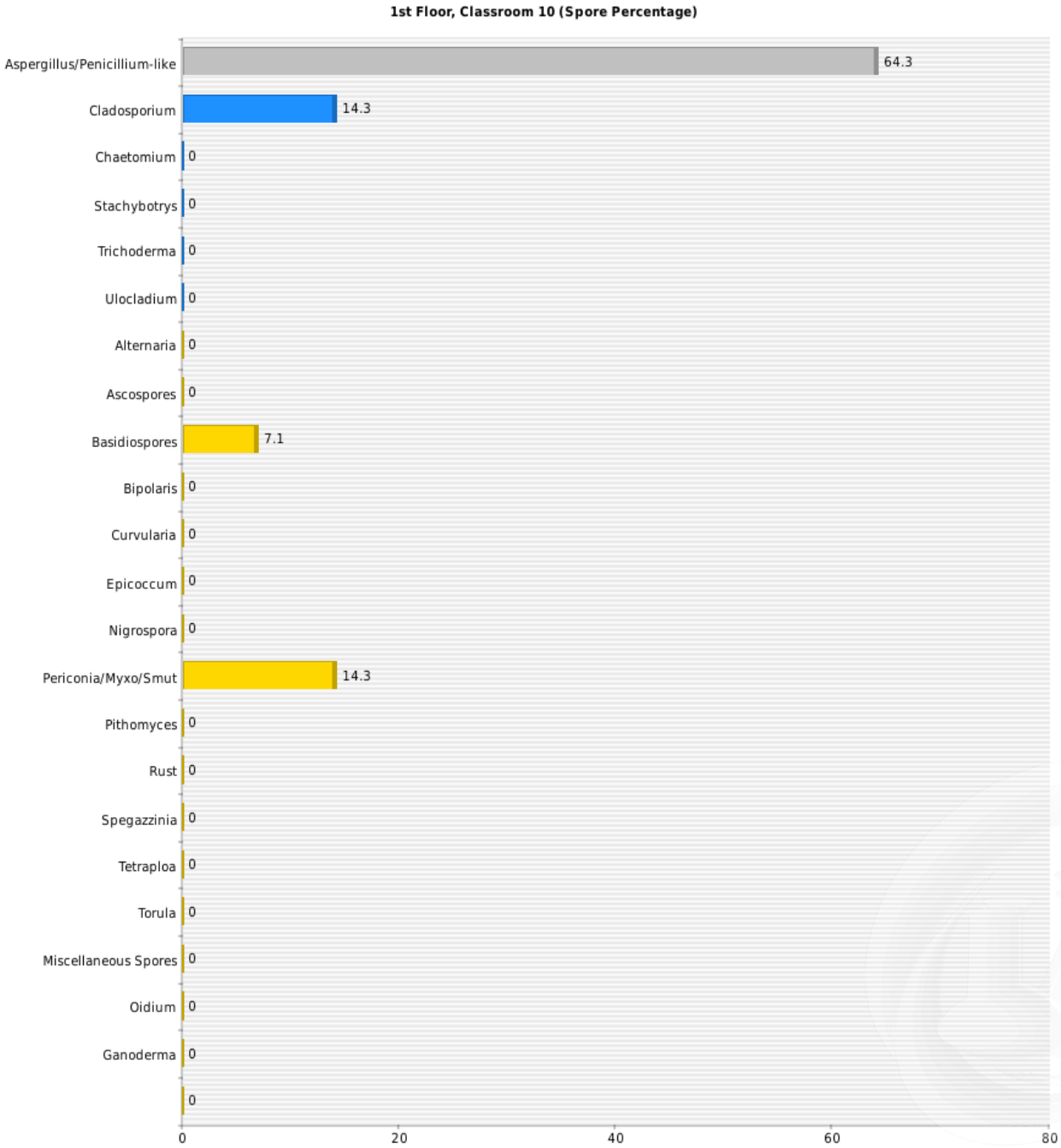

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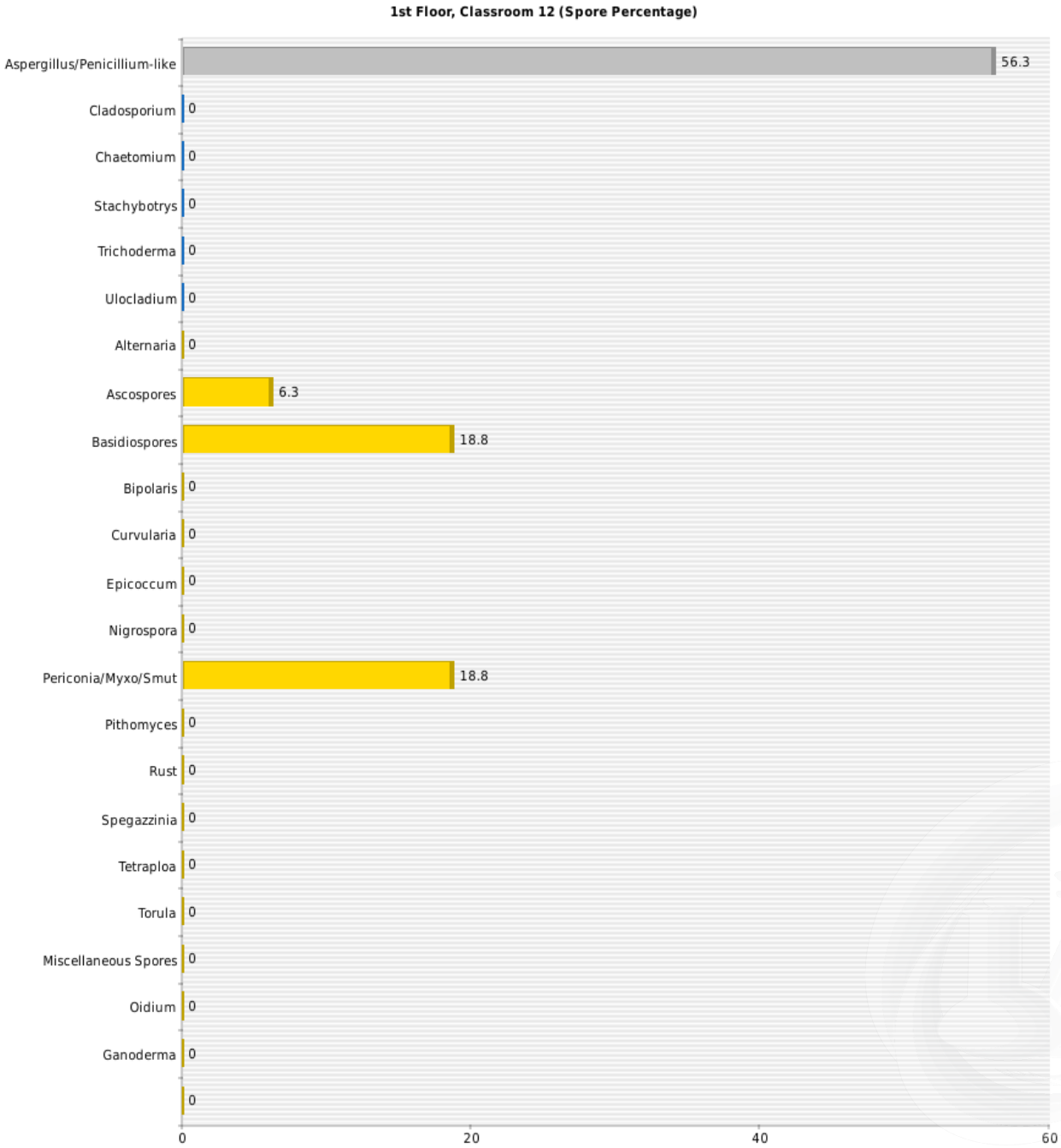

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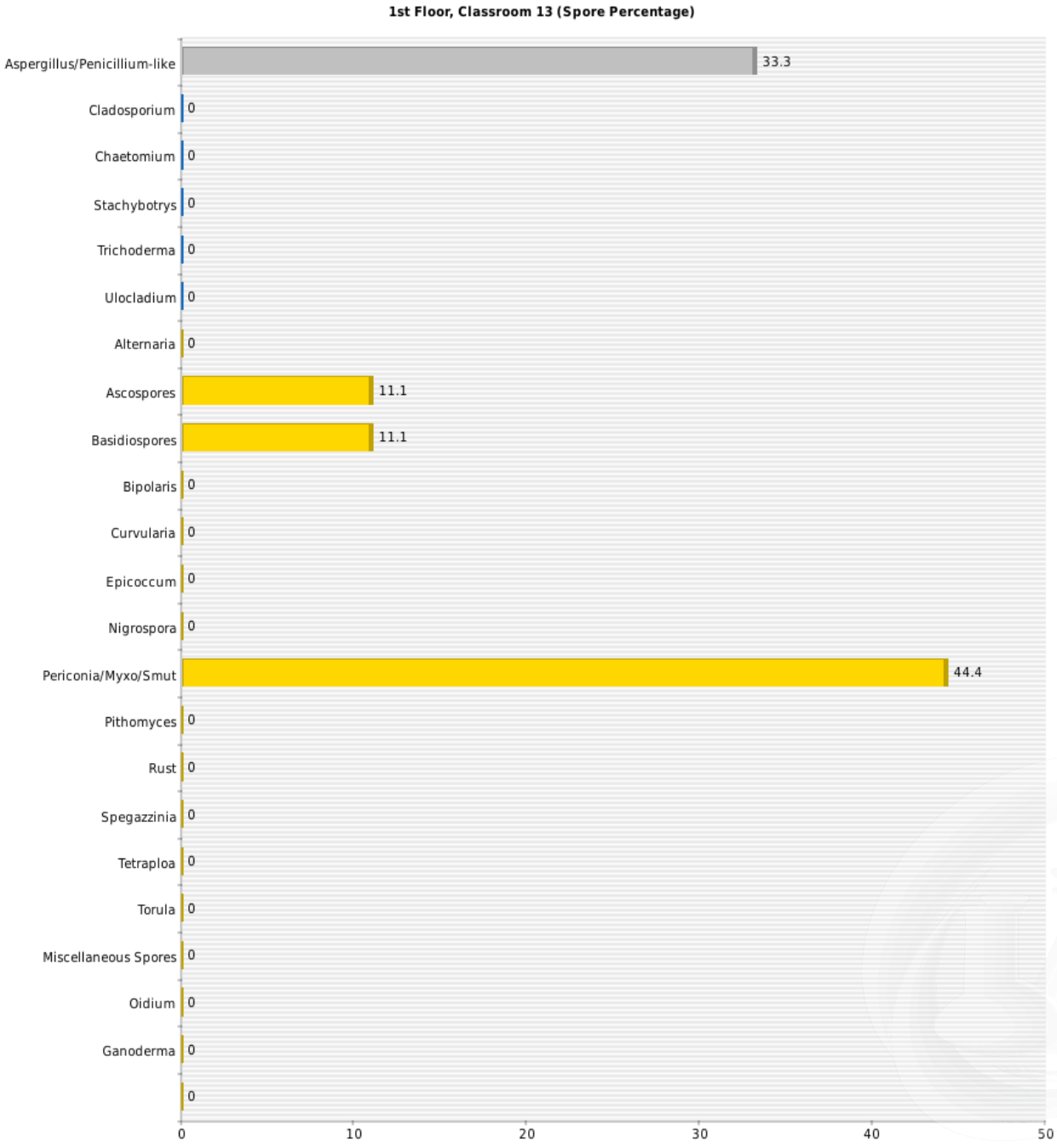

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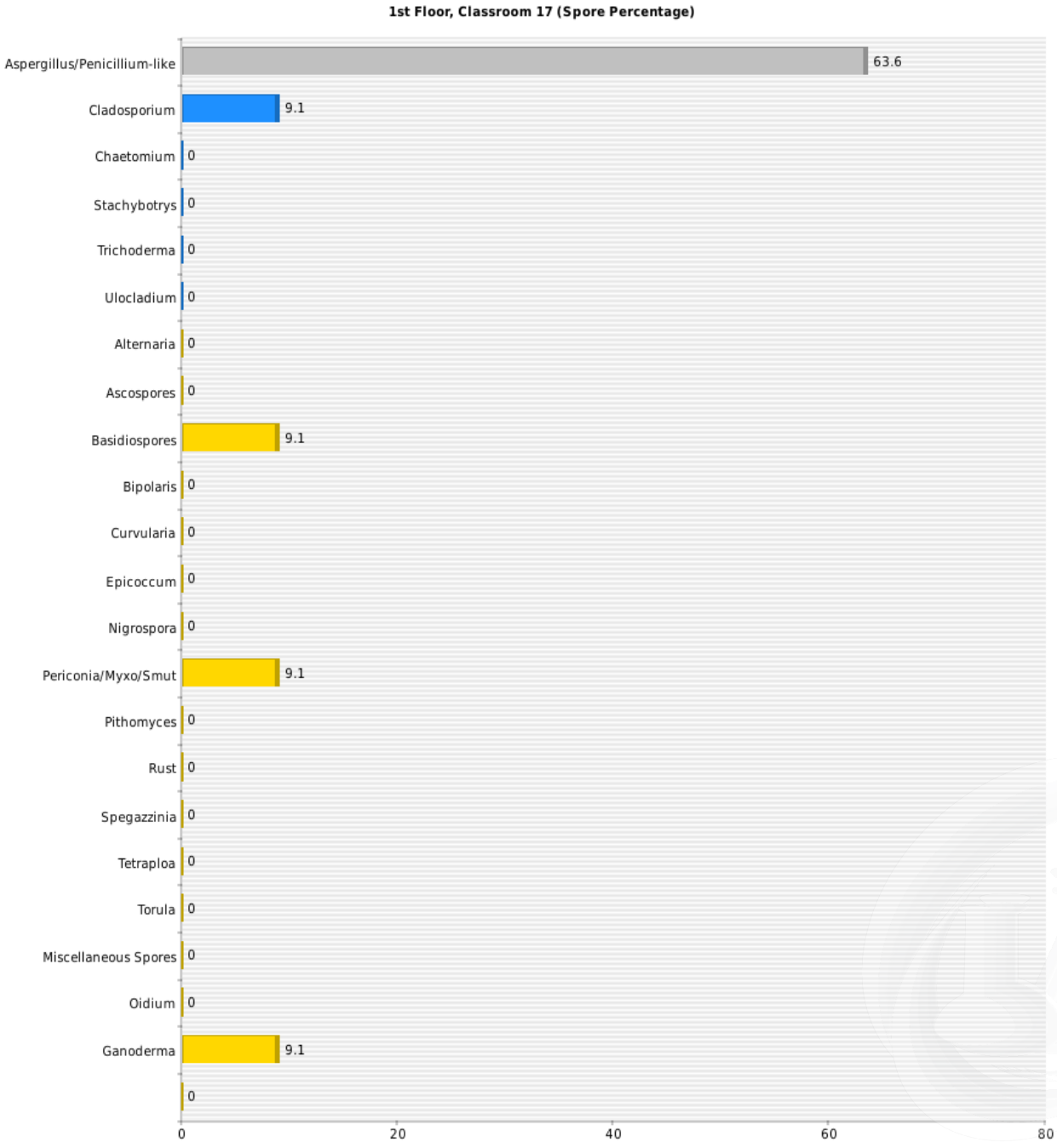

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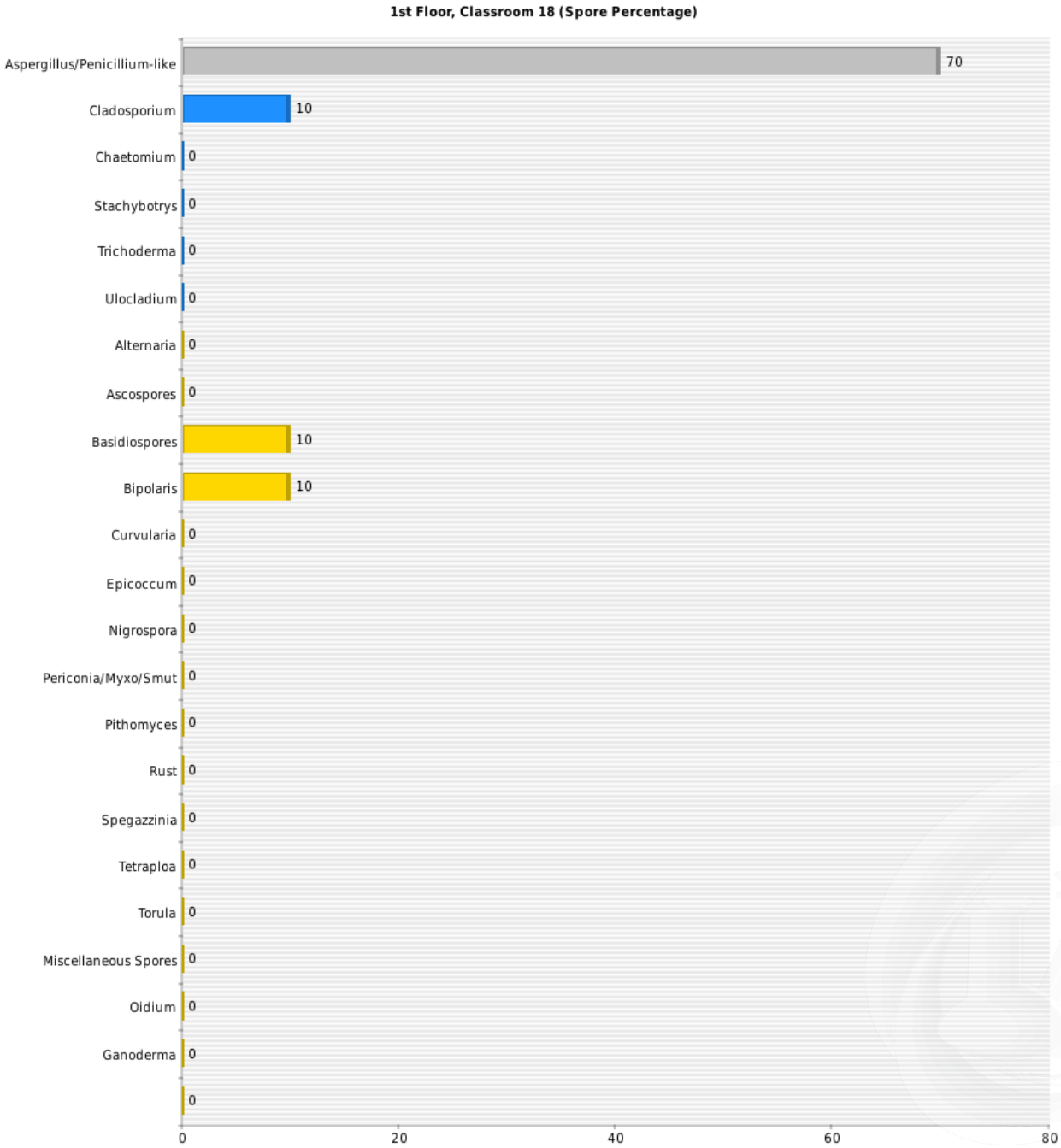

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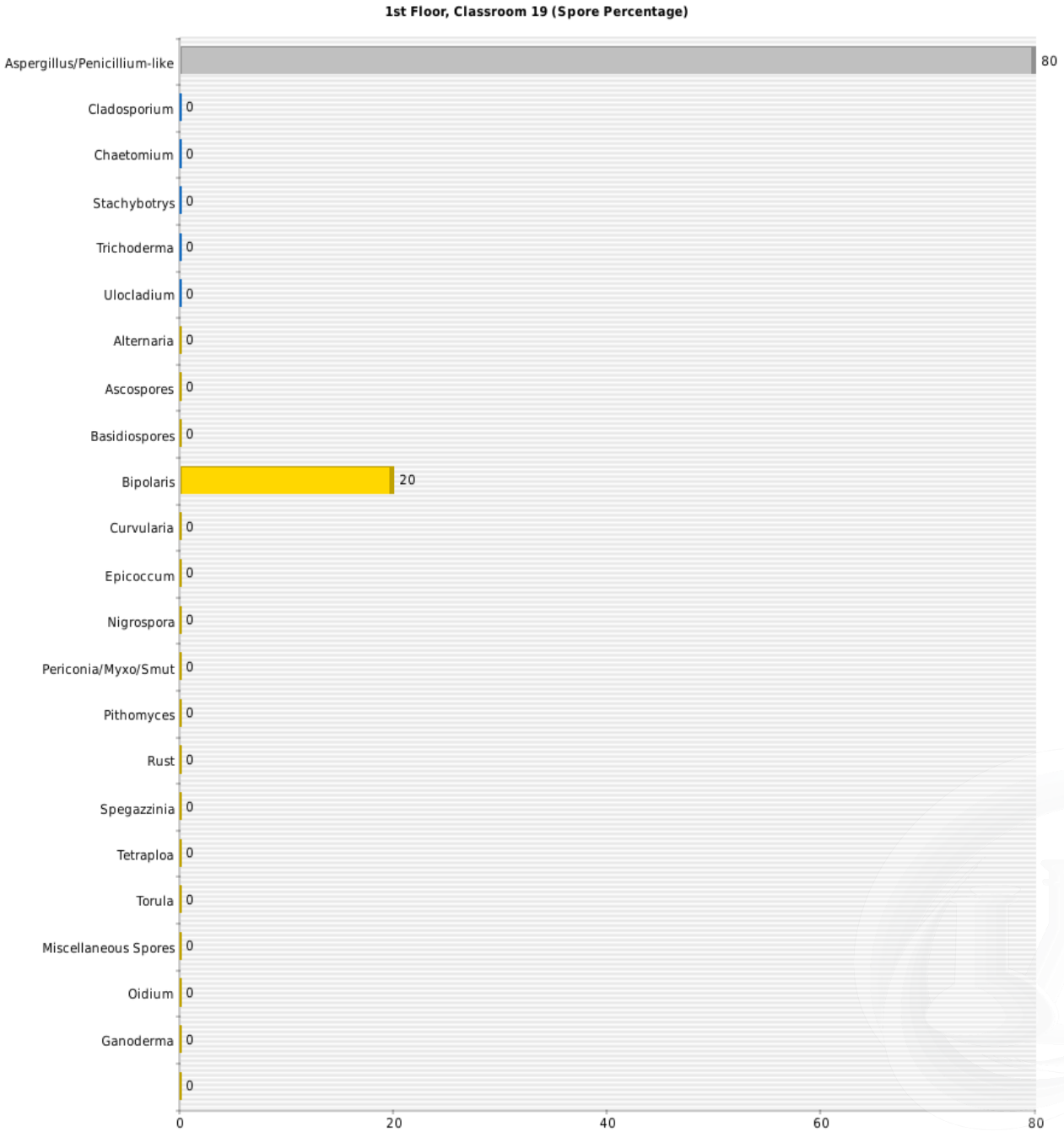

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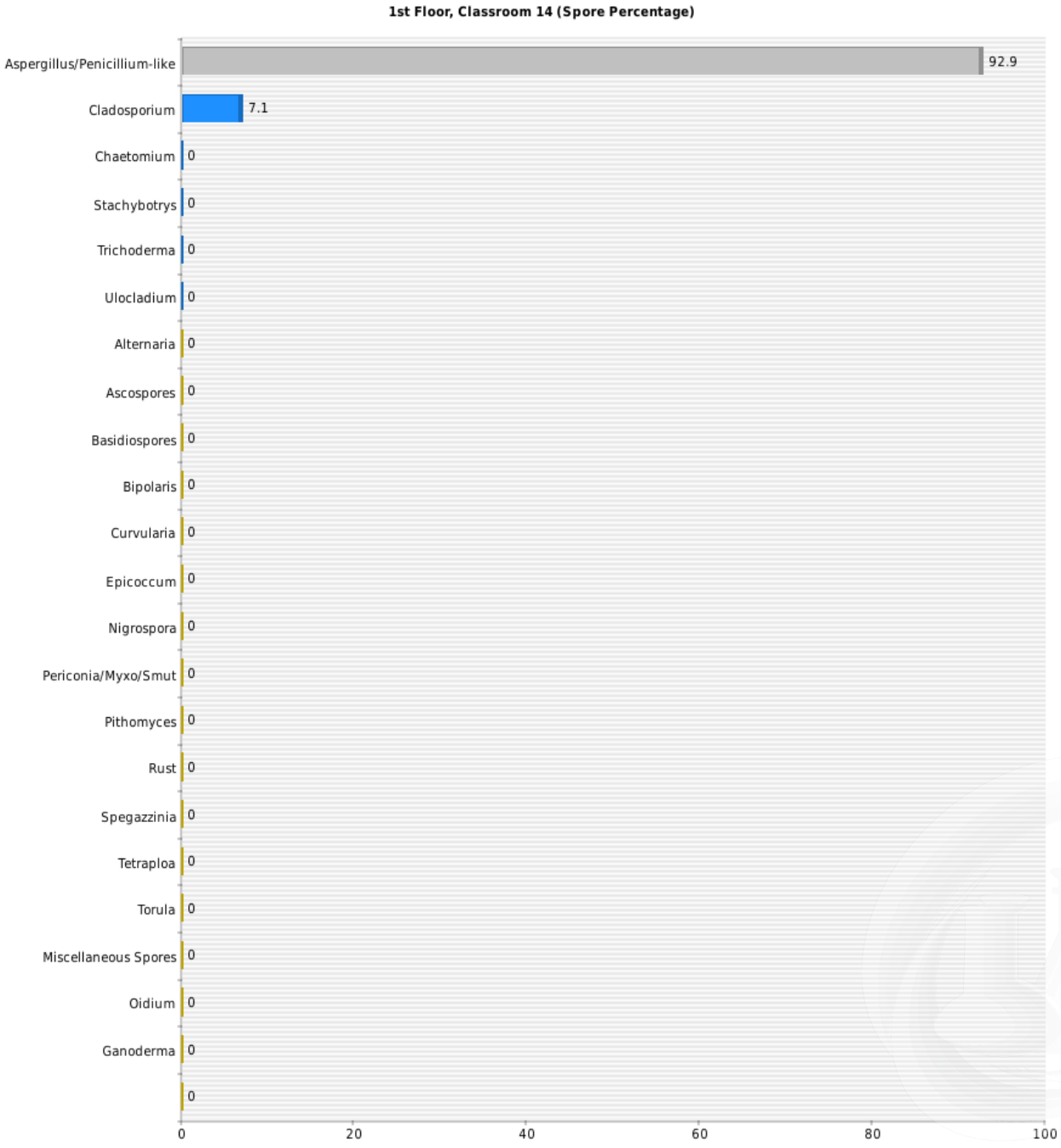

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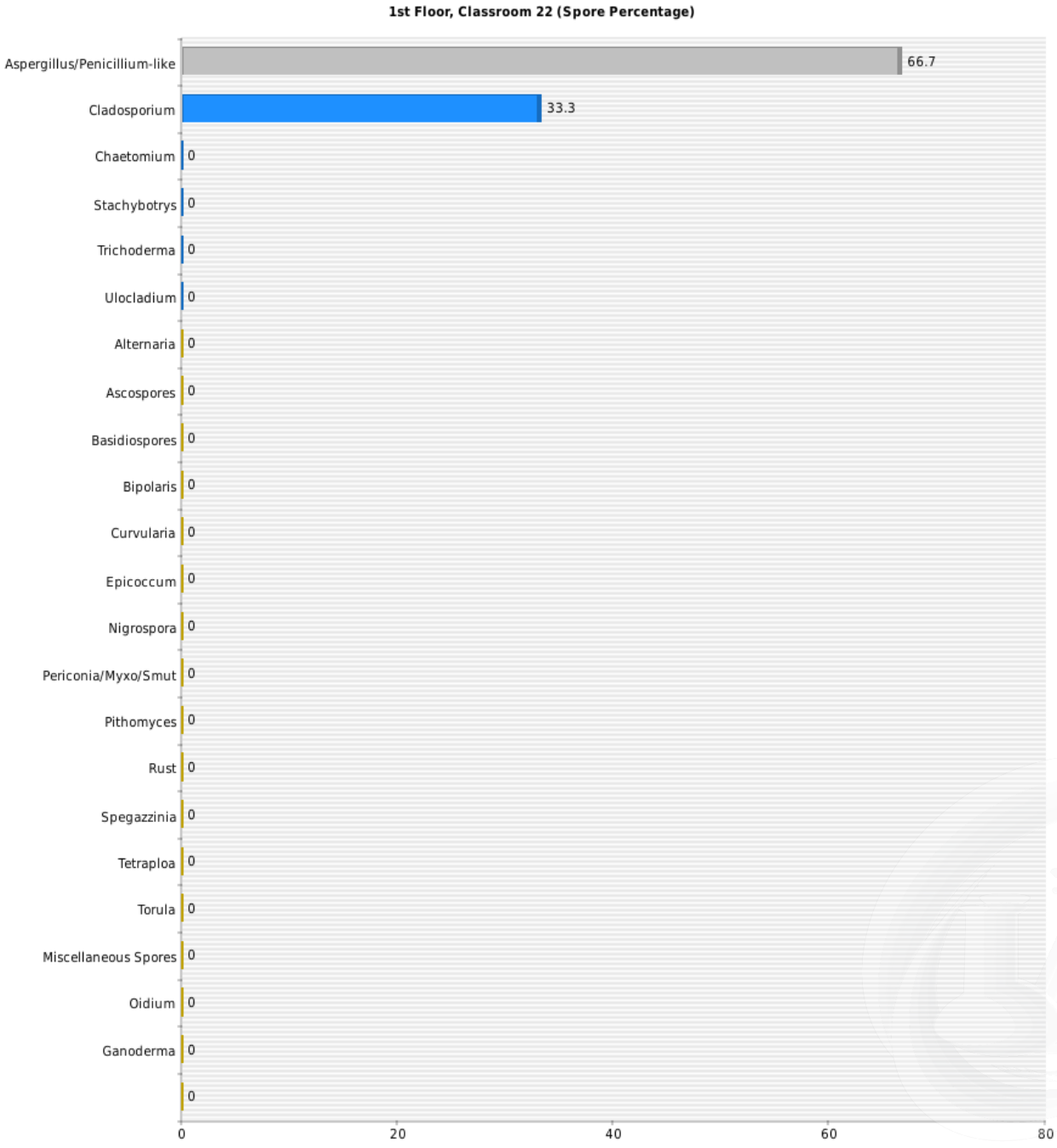

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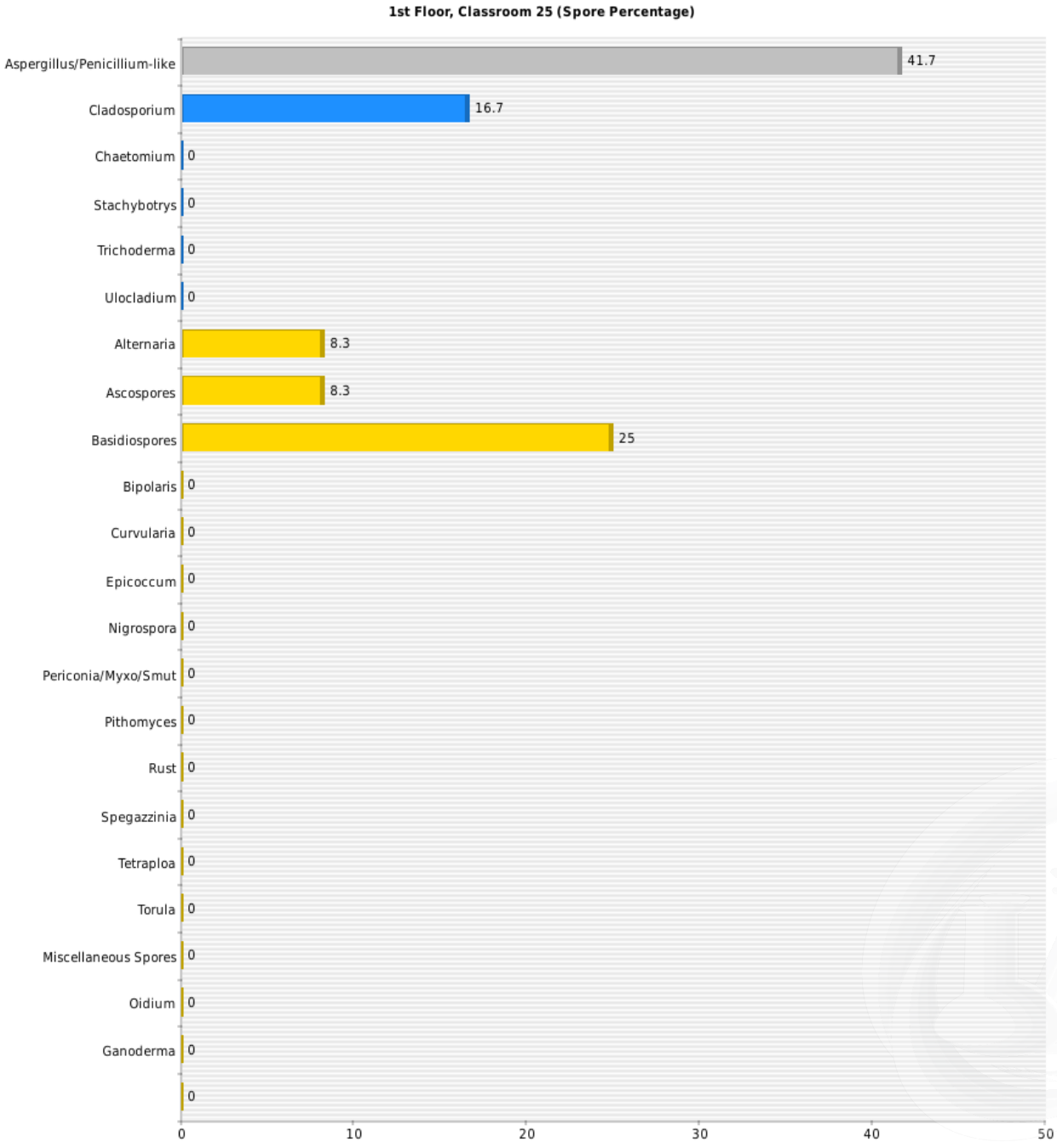

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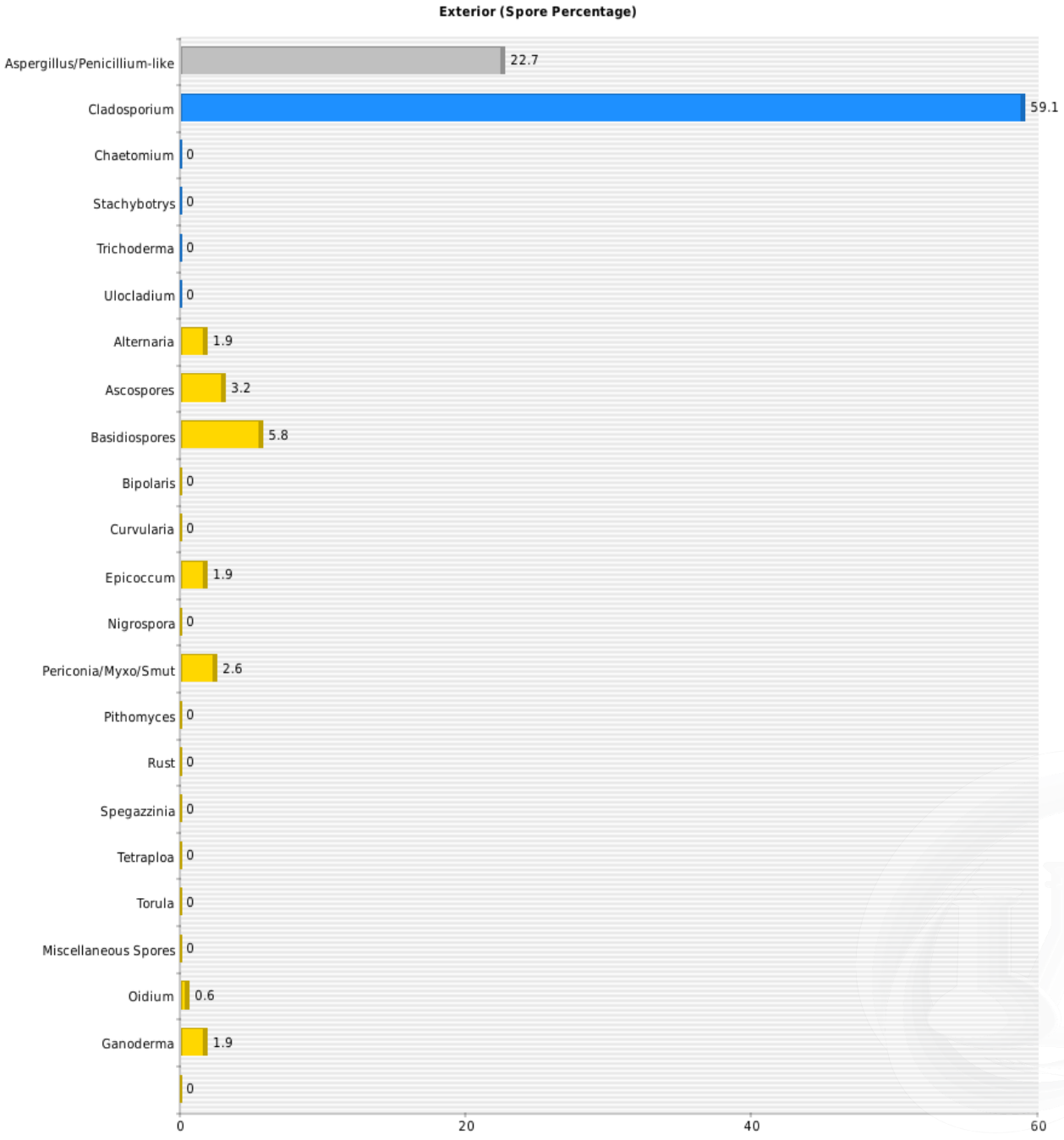

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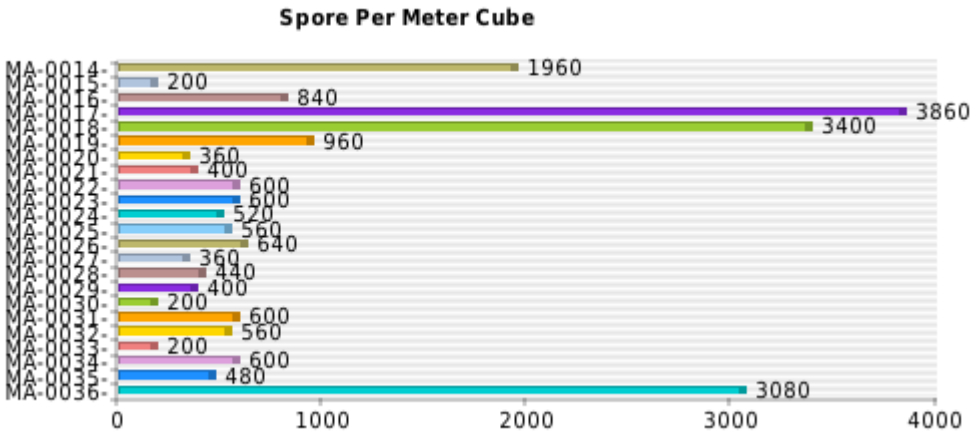

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## Understanding Sampling and Laboratory Methodologies

Spore Trap Cassettes (Air Sampling media) are unique air sampling cassettes specifically designed for the rapid collection of a wide range of airborne aerosols including mold spores, pollen, insect parts, skin cell fragments, and inorganic particulate. The analytical results obtained from include both viable and non-viable spores. Some fungal groups produce similar spore types that are difficult to be distinguished only by direct microscopic examination like Aspergillus/Penicillium, or other identical spore. Similarly other spore types may lack distinguishing features that aid in their identification like hyphae. To avoid any confusion these types are grouped into larger categories such as Ascospores or Basidiospores.

*Examination Technique:*

AIH Laboratory Fungal Air Sample Reports data results are provided in spore counts per cubic meter of air. Fungal spores are identified and grouped by morphological characteristics including color, shape, size, and fruiting structures (if present) which are compared to published mycological identification keys and texts.

*Qualitative Analysis:*

It is difficult to precisely measure some analytical findings which aid in assessing the overall sample condition and density. Qualitative analysis is used to determine concentration of Skin Fragments, Background and Hyphal fragments. A number between 1-5 is used to rate the concentrations. Each number increase in rate adds a range of 1-20% Please understand that higher the number of skin fragments and background particle it may obscure small spore. Overloaded in comments indicate that sample failed to meet visibility density criteria and thus the quantitate analysis was not performed on the particular sample.

*Analysis:*

This data is gathered by visual and statistical analysis performed on the specimen. The quantitative data is adhered to strict quality control procedures. This strict quality is achieved by reanalyzing at least 10% of samples. The results from original analysis and re-read must be close with only minor variation. If results do not fall under minor variation criteria, then all samples must be analyzed again. The quantitative data is used to produce the final result in spore(s) per meter cube.

## About AIH Laboratory

AIH Laboratory is renowned laboratory located in Anaheim, CA. The staff at AIH Laboratory is recognized by State, Federal agencies and International Accrediting Bodies. AIH Laboratory employs sophisticated techniques, strong professional experience along with recognized testing procedures in the industry. AIH Laboratory participates in Inter-laboratory testing program with various national laboratories to ensure conformance with newly adapted technologies, research and methodologies. The samples received by AIH Laboratory are processed under strict quality control procedures to avoid any discrepancy in results. The data generated by the laboratory from the analytical observation of the specimens is presented in a format that is easily understood by anyone with a science background. An environmental expert will accurately interpret the data and findings detailed in this report.

A-Tech Consulting, Inc.

**A-Tech Project Number:** 211881
**Client Reference Number:**

## MOLD AIR SAMPLE CHAIN OF CUSTODY

2111461

**Analysis:** Non-Viable Spore Trap (Air-O-Cell)(ID Fungal Count & Genus; Direct Exam)
**Turn Around Time:** 72 Hour

**Phone Number:** (714) 434-6360
**Fax Number:** (714) 221-6360
**Attn:** Robert Williams
**Results:** Email to labs@atechinc.net

| **Project Number and Name:** | **Sampled By:** | | |
|---|---|---|---|
| 211881 - Azusa USD Valleydale Elementary School | Krizia Kolakowski | | |
| **Project Address:** | **City:** | **State:** | **Zip:** |
| 700 South Lark Ellen Avenue | Azusa | CA | 91702 |
| **Notes:** | | | |

| Sample Date | Sample ID | Sample Location | Sample Volume (L) |
|---|---|---|---|
| 7/19/2021 9:36 AM | 211881-MA-0001 | Exterior | |
| 7/19/2021 9:48 AM | 211881-MA-0002 | 1st Floor, Classroom 1 | 75 |
| 7/19/2021 10:08 AM | 211881-MA-0003 | 1st Floor, Classroom K-1 | 75 |
| 7/19/2021 10:27 AM | 211881-MA-0004 | 1st Floor, Classroom K-2 | 75 |
| 7/19/2021 10:50 AM | 211881-MA-0005 | 1st Floor, Classroom K-3 | 75 |
| 7/19/2021 11:09 AM | 211881-MA-0006 | 1st Floor, Library | 75 |
| 7/19/2021 11:25 AM | 211881-MA-0007 | 1st Floor, Computer Lab | 75 |
| 7/19/2021 11:44 AM | 211881-MA-0008 | 1st Floor, Classroom 24 | 75 |
| 7/19/2021 12:04 PM | 211881-MA-0009 | 1st Floor, Classroom 23 | |
| 7/19/2021 12:17 PM | 211881-MA-0010 | 1st Floor, Classroom 9 | 75 |
| 7/19/2021 12:34 PM | 211881-MA-0011 | 1st Floor, Classroom 11 | 75 |
| 7/19/2021 12:53 PM | 211881-MA-0012 | 1st Floor, Classroom 16 | 75 |
| 7/19/2021 1:04 PM | 211881-MA-0013 | Exterior | 150 |

**Client Sample Number:** 211881-MA-0001 to 211881-MA-0013 **Total:** 13

**Relinquished By:** **Date:** 7/19/2021 **Time:** 5:21 PM

**Samples Received By:** Ryan Snell CAT **Date:** 7/19/2021 **Time:** 5:25

**Relinquished By:** **Date:** **Time:**

**Samples Received By:** **Date:** **Time:**

1640 North Batavia Street, Orange, CA 92867-3509
Phone: 714-434-6360 Fax 714-221-6360
Web Address: www.atechinc.net

A-Tech Consulting, Inc.

**A-Tech Project Number:** 211881
**Client Reference Number:**

## MOLD AIR SAMPLE CHAIN OF CUSTODY

2112851

**Analysis:** Non-Viable Spore Trap (Air-O-Cell)(ID Fungal Count & Genus; Direct Exam)
**Turn Around Time:** 48 Hour

**Phone Number:** (714) 434-6360
**Fax Number:** (714) 221-6360
**Attn:** Robert Williams
**Results:** Email to labs@atechinc.net

| **Project Number and Name:** | **Sampled By:** | | |
|---|---|---|---|
| 211881 - Azusa USD Valleydale Elementary School | Krizia Kolakowski | | |
| **Project Address:** | **City:** | **State:** | **Zip:** |
| 700 South Lark Ellen Avenue | Azusa | CA | 91702 |
| **Notes:** | | | |

| Sample Date | Sample ID | Sample Location | Sample Volume (L) |
|---|---|---|---|
| 8/9/2021 3:12 PM | 211881-MA-0014 | Exterior | 150 |
| 8/9/2021 3:25 PM | 211881-MA-0015 | 1st Floor, Classroom 5 | 75 |
| 8/9/2021 3:37 PM | 211881-MA-0016 | 1st Floor, Classroom 6 | 75 |
| 8/9/2021 3:46 PM | 211881-MA-0017 | Exterior | 150 |
| 8/10/2021 9:10 AM | 211881-MA-0018 | Exterior | 150 |
| 8/10/2021 9:22 AM | 211881-MA-0019 | 1st Floor, Classroom 2 | 75 |
| 8/10/2021 9:35 AM | 211881-MA-0020 | 1st Floor, Classroom 3 | 75 |
| 8/10/2021 9:49 AM | 211881-MA-0021 | 1st Floor, Classroom 4 | 75 |
| 8/10/2021 10:03 AM | 211881-MA-0022 | 1st Floor, VI-100 | 75 |
| 8/10/2021 10:39 AM | 211881-MA-0023 | 1st Floor, Classroom 7 | 75 |
| 8/10/2021 10:54 AM | 211881-MA-0024 | 1st Floor, Classroom 8 | 75 |
| 8/10/2021 11:08 AM | 211881-MA-0025 | 1st Floor, Classroom 10 | 75 |
| 8/10/2021 11:28 AM | 211881-MA-0026 | 1st Floor, Classroom 12 | 75 |

**Client Sample Number:** 211881-MA-0014 to 211881-MA-0036 **Total:** 23

**Relinquished By:** _____ **Date:** 8/10/2021 **Time:** 2:42 PM

**Samples Received By:** Sarah Tran **Date:** 8/10/21 **Time:** 3:30 pm

**Relinquished By:** **Date:** **Time:**

**Samples Received By:** **Date:** **Time:**

1640 North Batavia Street, Orange, CA 92867-3509
Phone: 714-434-6360 Fax 714-221-6360
Web Address: www.atechinc.net

A-Tech Consulting, Inc.

**A-Tech Project Number:** 211881

**Client Reference Number:**

211881

## MOLD AIR SAMPLE CHAIN OF CUSTODY

| | | | |
|---|---|---|---|
| 8/10/2021 11:42 AM | 211881-MA-0027 | 1st Floor, Classroom 13 | 75 |
| 8/10/2021 11:58 AM | 211881-MA-0028 | 1st Floor, Classroom 17 | 75 |
| 8/10/2021 12:15 PM | 211881-MA-0029 | 1st Floor, Classroom 18 | 75 |
| 8/10/2021 12:42 PM | 211881-MA-0030 | 1st Floor, Classroom 19 | 75 |
| 8/10/2021 12:49 PM | 211881-MA-0031 | 1st Floor, Classroom 20 | 75 |
| 8/10/2021 1:06 PM | 211881-MA-0032 | 1st Floor, Classroom 14 | 75 |
| 8/10/2021 1:59 PM | 211881-MA-0033 | 1st Floor, Classroom 21 | 75 |
| 8/10/2021 2:13 PM | 211881-MA-0034 | 1st Floor, Classroom 22 | 75 |
| 8/10/2021 2:25 PM | 211881-MA-0035 | 1st Floor, Classroom 25 | 75 |
| 8/10/2021 2:32 PM | 211881-MA-0036 | Exterior | 150 |

**Client Sample Number:** 211881-MA-0014 to 211881-MA-0036 **Total:** 23

**Relinquished By:** **Date:** 8/10/2021 **Time:** 2:42 PM

**Samples Received By:** Sarah Tran **Date:** 8/10/21 **Time:** 3:30pm

**Relinquished By:** **Date:** **Time:**

**Samples Received By:** **Date:** **Time:**

1640 North Batavia Street, Orange, CA 92867-3509
Phone: 714-434-6360 Fax 714-221-6360
Web Address: www.atechinc.net

# INSTRUMENT CALIBRATION REPORT

Advanced Labs, Inc.

## A-Tech Testing

**Instrument ID** T75451842011
**Description** TSI 7545 IAQ-Calc
**Calibrated** 12/21/2020

**Manufacturer** TSI
**Model Number** 7545
**Serial Number** T75451842011
**Location** New Jersey
**Temp** 68

**Classification**
**Status** Pass
**Frequency** Yearly EOM
**Department** Lab
**Humidity** 25

### Calibration Specifications

**Group #** 1
**Group Name** Temperature
**Stated Accy** Plus / Minus
**Range Acc %** 0.0000
**Reading Acc %** 0.0000
**Plus/Minus** 0.60

| Nom In Val / In Val | In Type | Out Val | Out Type | Fnd As | Lft As | Dev% | Pass/Fail |
|---|---|---|---|---|---|---|---|
| 20.00 / 17.70 | °C | 17.70 | °C | 17.80 | 17.70 | 0.00% | Pass |

**Group #** 2
**Group Name** Relative Humidity
**Stated Accy** Plus / Minus
**Range Acc %** 0.0000
**Reading Acc %** 0.0000
**Plus/Minus** 3.00

| Nom In Val / In Val | In Type | Out Val | Out Type | Fnd As | Lft As | Dev% | Pass/Fail |
|---|---|---|---|---|---|---|---|
| 30.00 / 29.40 | % | 29.40 | % | 31.10 | 29.40 | 0.00% | Pass |

**Group #** 3
**Group Name** Carbon Dioxide
**Stated Accy** Pct of Reading
**Range Acc %** 0.0000
**Reading Acc %** 3.0000
**Plus/Minus** 0.00

| Nom In Val / In Val | In Type | Out Val | Out Type | Fnd As | Lft As | Dev% | Pass/Fail |
|---|---|---|---|---|---|---|---|
| 0.00 / 0.00 | ppm | 0.00 | ppm | 6.00 | 0.00 | 0.00% | Pass |
| 1000.00 / 1000.00 | ppm | 1000.00 | ppm | 970.00 | 1,002.00 | 0.20% | Pass |

**Group #** 4
**Group Name** Carbon Monoxide
**Stated Accy** Pct of Reading
**Range Acc %** 0.0000
**Reading Acc %** 3.0000
**Plus/Minus** 0.00

| Nom In Val / In Val | In Type | Out Val | Out Type | Fnd As | Lft As | Dev% | Pass/Fail |
|---|---|---|---|---|---|---|---|
| 0.00 / 0.00 | ppm | 0.00 | ppm | 0.40 | 0.00 | 0.00% | Pass |
| 100.00 / 100.00 | ppm | 100.00 | ppm | 67.30 | 100.40 | 0.40% | Pass |

**Group #** 5
**Group Name** Barometric Pressure
**Stated Accy** Pct of Reading
**Range Acc %** 0.0000
**Reading Acc %** 3.0000
**Plus/Minus** 0.00

| Nom In Val / In Val | In Type | Out Val | Out Type | Fnd As | Lft As | Dev% | Pass/Fail |
|---|---|---|---|---|---|---|---|
| 30.00 / 29.71 | inHg | 29.71 | inHg | 29.92 | 29.71 | 0.00% | Pass |

# INSTRUMENT CALIBRATION REPORT

Advanced Labs, Inc.

## A-Tech Testing

**Instrument ID** T75451842011
**Description** TSI 7545 IAQ-Calc
**Calibrated** 12/21/2020

**Test Instruments Used During the Calibration**

| Test Instrument ID | Description | Manufacturer | Serial Number | (As Of Cal Entry Date) Last Cal Date | Next Cal Date |
|---|---|---|---|---|---|
| CO/CO2_105L-375 | 100ppm CO, 1000ppm CO2 | Specialty Gases of America, Inc. | MBI-375-2 | 12/1/2018 | 12/11/2022 |
| MICHELL DM-509-TX-01 | Relative Humidity Meter | Michell | 273296 | 11/3/2020 | 11/3/2021 |
| NITROGEN_UHP | Nitrogen 99.999% | Liquid Technology | 31821 | 12/1/2018 | 12/1/2023 |
| OMEGA HX93AC/DP25-E | Omega HX93AC/DP25-E | Omega Engineering | 1010368 035025 035026 | 11/25/2020 | 11/25/2022 |
| OMEGA PX02K1-16A5T /DP25-E-A | Omega PX02K1-16A5T/DP25-E-A | Omega Engineering | 168377/8375030 | 11/25/2020 | 11/25/2022 |
| OMEGA WT4401-D | Omega WT4401-D | Omega Engineering | 101105 | 11/25/2020 | 11/25/2022 |
| ZERO_AIR | Zero Grade Air THC <1.0 PPM | Liquid Technology | 31845 | 3/1/2019 | 3/21/2023 |

**Notes about this calibration**

**Calibration Result** Calibration Successful
**Who Calibrated** Kevin Cole

**Advanced Labs, Inc. hereby certifies that this instrument is calibrated and functions to meet the manufacture's specifications using NIST traceable standards, or is derived from accepted values of physical constants.**

# INSTRUMENT CALIBRATION REPORT

Advanced Labs, Inc.

## A-Tech Testing

**Instrument ID** CM19362009
**Description** Thermo PDR-1500 Aerosol Monitor
**Calibrated** 12/7/2020

**Manufacturer** Thermo
**Model Number** PDR-1500
**Serial Number** CM19362009
**Location** New Jersey
**Temp** 70

**Classification**
**Status** Pass
**Frequency** Yearly
**Department** Lab
**Humidity** 25

### Calibration Specifications

**Group #** 1
**Group Name** Arizona Road Test Dust
**Test Performed: Yes** **As Found Result: Pass** **As Left Result: Pass**

### Test Instruments Used During the Calibration

| Test Instrument ID | Description | Manufacturer | Serial Number | (As Of Cal Entry Date) Last Cal Date | Next Cal Date |
|---|---|---|---|---|---|
| DR-4 MASTER D780 | Thermo DataRAM-4000 Master | Thermo | D780 | 3/6/2020 | 3/6/2021 |

**Notes about this calibration**

Calibration Ratio: 1.15

**Calibration Result** Calibration Successful
**Who Calibrated** David Galego

**Advanced Labs, Inc. hereby certifies that this instrument is calibrated and functions to meet the manufacture's specifications using NIST traceable standards, or is derived from accepted values of physical constants.**