

STATE-OF-THE-ART qPCR FOR MOLD ANALYSIS PROVIDES HIGHLY ACCURATE RESULTS TO KEEP YOUR BUSINESS IN THE SUCCESS ZONE.

FACT SHEET - 2021

In recent years, advances in molecular biology, genetics, and techniques used to characterize deoxyribonucleic acid (DNA) have grown at an extremely rapid pace.

The technology used at SGS to detect and identify DNA in molds has become very accurate, reliable, and cost-effective. The technology has opened the possibility to speciate molds in a manner that has never been accomplished before on a commercial level. To date, scientists have relied on years of training, experience, and direct microscopic examination to arrive at the correct application of a name in the identification of fungal molds.

AN EFFECTIVE ALTERNATIVE TO TRADITIONAL MYCOLOGY

qPCR is a highly accurate and sensitive molecular technique for the detection of molds. The previous standard method of identifying molds present in environmental samples depends on culturing molds on defined media, knowing that only a handful of those molds actually present in a sample may take to the culture medium and grow in the laboratory. These methods rely on visually counting and identifying mold spore colonies, a slow, subjective process dependent on the skill and experience of the individuals performing the tests.

In contrast, qPCR uses the unique molecular signatures of the individual mold species and to provide a sensitive, specific and robust result that is also quick and less-prone to interpretation differences between analysts. Air samples



are taken on a polycarbonate filter, so overloading the sample is not an issue. Air volumes of 1000 L or more are typical for qPCR samples. The method limit of detection (LOD) is 1 spore per sample, but the extended dynamic range of the technique can accurately quantify millions of spores per sample.

qPCR MOLD OPTIONS

Our qPCR Mold Options include:

- Identification of up to 51+ species of mold by qPCR including key water intrusion marker molds such as *Stachybotrys*, *Penicillium*, and *Aspergillus* that are crucial to an effective risk assessment
- Complete custom panels for water intrusion investigations
- Defined infection control panels
- Flexible healthcare facility panels
- Testing of bulk building material when rapid speciation of observed mold growth is required at turnaround times as fast as same day

WHY CHOOSE SGS

The SGS microbiology staff has years of experience, a focus on quality, data integrity, and one that can provide superior service to help your project progress smoothly. As part of the commitment to quality, all qPCR samples at SGS are run in triplicate to ensure you are receiving the most accurate data in the industry.

SGS is the world's leading inspection, verification, testing and certification company. SGS is recognized as the global benchmark for quality and integrity. With more than 89,000 employees, SGS operates a network of over 2,600 offices and laboratories around the world.

TO FIND OUT MORE CONTACT US AT

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WHEN YOU NEED TO BE SURE

