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Monthly Newsletter

This is the 8th installment of our newsletter. It includes a discussion on cost justification for ERMI Mold Testing, an explanation of Quality Control and Quality Assurance, and information on gaining a Competitive Advantage.

Cost

Bv Merissa McGraw

amounts of Penicillium/Aspergillus-like they noticed they could take groups of species? My guess is more than once. molds and compare those for a more acpergillus sp. look like little spherical the Group 1, or water-impact molds, and indicating Penicillium or Aspergillus spe- Group 1 molds you can tell if there is an cies: but which is it?

play. The ERMI panel can not only differand Aspergillus but can also tell you what time, money and frustration. species of each is present and in what concentration. This means instead of having the rather ambiguous result of 1,500 Penicillium/Aspergillus-like spores present you could get a result back of 430 damage to buildings but are also the spores of Aspergillus niger, 600 spores of Penicillium brevicompactum, and 470 risks can range from allergies and skin spores of *Penicillium chrysogenum*. This infections to life threatening endocartitis. may help with locating water intrusion The effect of mold-exposure symptoms based on where and on what the species varies with the individual but immunopresent tend to grow.

Another benefit of the ERMI is the guess work of what is good or bad has already other health care provider in order to gether, they lead to results that are rebeen done saving time and energy. Re- narrow down what the cause of certain peatable over and over again. member time is money. The EPA as part health issues may be. of the Housing and Urban Development's American Healthy Homes Survey created For about 100 dollars more you can get the quality results. The most important of an index of the relative moldiness of so much more information with ERMI which is establishing quality program homes in the U.S. The ERMI score corre- analysis. These are just a few examples of with policies outlined in the form of a

Why ERMI DNA Analysis is Worth the lates to the average concentrations of the where the extra cost pales in comparison most common 36 molds found during to the value of the information received. this study. The EPA also found they could For more information on ERMI analysis not only take the concentrations of one please feel free to ask. How many times have you received a or two molds and differentiate whether Direct Exam report that listed elevated the home was typical or atypical. Instead ****************************** Why does this occur? That is because un- curate description of typical and atypical. Quality Control and Quality Assurance der a microscope Penicillium sp. and As- These groups of molds are what became By Lyn Pope globes of brown, green, and black color. the Group 2, or more common outdoor Every two years, labs accredited by the In other words they all look the same. The molds. Based on the concentrations of American Industrial Hygiene Association only way a microscopist can differentiate these groups you can tell a lot about the (AIHA) are required to undergo a reacbetween genus is if the reproductive property. For example the concentration structure is still attached which is not of Group 2 molds indicates how often the always the case. Now you have a report property is cleaned or based on the active water intrusion event occurring. This could help with deciding whether a ance are in place. What exactly does this This is where DNA analysis comes into good cleaning would resolve the mold issue or whether thousands of dollars of entiate between the genus of *Penicillium* remediation is warranted; again saving

> beneficial from a health standpoint as well. Molds not only cause structural cause of many health issues. These health suppressed patients are at greatest risk of mycosis. In these cases the client could bring the ERMI report to their allergist or

Why ERMI DNA Analysis is Worth the Cost -Merissa McGraw

Quality Control & Quality Assurance - Lyn Pope

Competitive Advantaae - Brad Russell



creditation process. This involves the review of documents, methods, reporting, records, and maintenance. Each of these areas is checked to insure that high standards of quality control and quality assurmean?

First let's examine the differences between Quality Control and Quality Assurance. The International Standards Organi-Knowing the species present in a home is zation (ISO) includes the following definitions in policy module 9000.

Quality Control is the operational techniques and activities that are used to fulfill the requirements for quality. Quality Assurance is defined as all those planned and systematic activities implemented to provide adequate confidence that an entity will fulfill requirements for quality. Quality Control focuses on the delivered lab results. Quality Assurance focuses on the road to those results. Partnered to-

Laboratories take many steps to provide



🔊 assuredbio

Quality Assurance Manual. This is a detailed description of quality policies and measures in place at the laboratory meant to lead to repeatable results. Ouality standards are determined by accrediting bodies such as AIHA and ISO, but most importantly they are determined by the expectations of their clients. Items such as accuracy, repeatability, lack of contamination, and data redundancy are competitive advantage to be successful. the expectations of responsible labs.

Quality control is used to establish accuracy and reliability. Methods often used in indoor air quality labs to do this include replicate analysis, duplicate analysis, no inoculum controls (NIC), positive controls, references, and blanks. The quality control method used is dependent on the method of analysis. For example, quality control for spore trap analysis is usually done in the form of replicate and duplicate analysis where DNA methods utilize positive controls and a NIC for guality control.

Quality assurance measures are often corrective and preventative actions. It can be looked at as a learning process. Analysts learn from each mistake or foreseen problem that either has or may occur in the lab. Once these have been identified, steps are taken to ensure that the problem will not occur during sample analysis. The key is practice. As the old adage says, "practice makes perfect". In a laboratory, perfection is repeatability. This is achieved through method validation, equipment calibrations, laboratory training programs, and the use of references.

When working with a lab, regardless of the industry, expect the best. The best should be accredited and/or licensed by the industry leading organizations. Licenses and accreditations mean that the lab is subject to industry oversight. A governing body makes sure that quality programs are effectively in place and maintained on a day to day basis. This leads to you, the client, getting the best possible results over and over again.

Competitive Advantage By Brad Russell

It's important for your business to have a If you cannot differentiate yourself from your competitors, why would clients choose you over the other options? It's clear that it's important, but what is a competitive advantage? In short it's a position a company occupies against its competitors. Three types of sustainable competitive advantage exist: cost leadership, differentiation, and focus.

Cost leadership is just what it implies providing the same service as others at a lower cost. The goal is to maximize profitability so you need ways to provide services at a lower cost while making at least the same amount of money. One of the most popular ways to do this is economies of scale. As the scope of your work becomes greater and more people become involved in the business it becomes less expensive to provide each incremental service. Short term wavs to achieve cost leadership include discounts and promotions where they will lead to future business.

Differentiation is providing a greater service at the same price as others. This could include add-ons to inspections, guarantees, insurance, etc. It could also include things such as scheduling availability, guaranteed turnaround time, additional consultation, etc. For a mold remediation job it could be something like a 30-day follow up. Consumers often refer to businesses going 'above and beyond'. When they say this, they are really indicating they noticed a differentiation advantage.

Focus is narrowing the target market to a small segment or niche to better serve that market. By narrowing the scope you

can't reach as many clients but you can serve them more effectively and efficiency. This can also be a form of differentiation advantage for that market. An example of this would be focusing on remediating mold caused by floods versus all types of mold remediation. Expertise is more attractive to prospective clients, but it can be difficult to accomplish in smaller cities. If you're in a larger market it may be easier to specialize and still have the required volume of work. In some businesses it's effective to overlap specialties to achieve focus while still offering breadth of service.

In any business there needs to be a sustainable competitive advantage for long term success. Determining what can set your business apart from others is the first step developing an advantage. Once you implement a plan you need to stay on top of market trends to verify it is not being duplicated or better and if it is you need to adjust accordingly. It's not always easy but it is important.

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