

# Introducing “Mouldscope”

A Unique Service Provided By Action Dry Ltd



This is the technology that goes into the report. We do not show this actual data in our reports

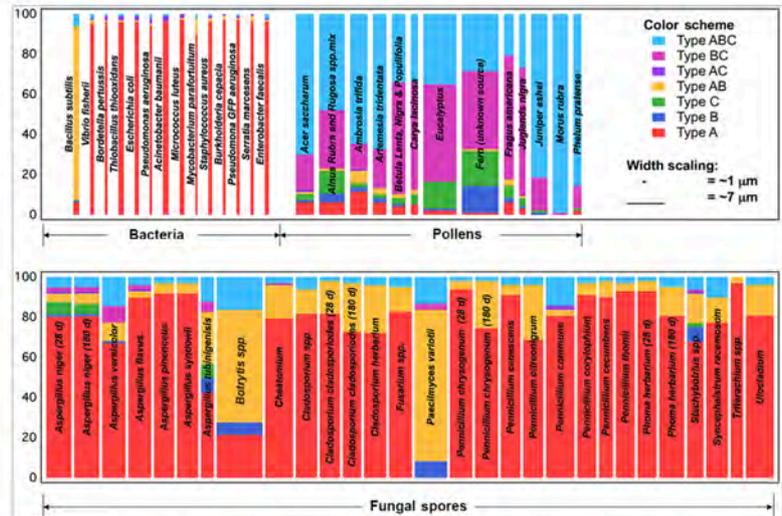


Figure 2. Juxtaposition of optical and fluorescence properties of aerosolized pure cultures of bacteria and pollens (top), and fungal spores (bottom). Fluorescence type distribution is defined by excitation and emission from any of three possible channels alone (A, B or C) or in any combination. Bar width is proportional to equivalent optical diameter (scaling shown below color scheme legend in top panel).

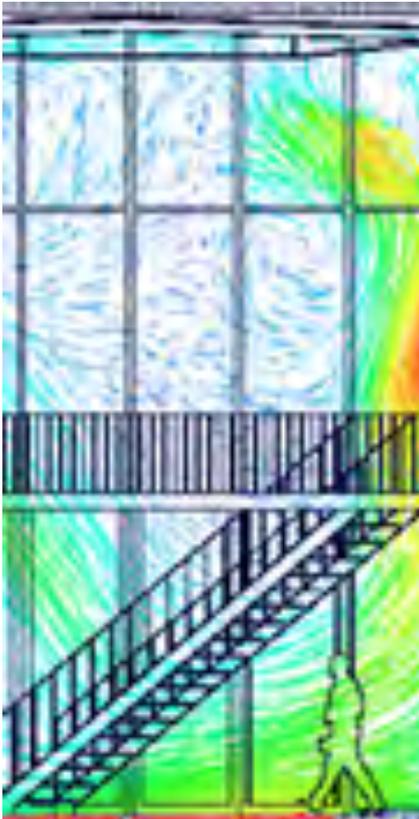


## THE NEXT GENERATION IN MOULD TESTING.

Traditional services investigating indoor mould conditions in the UK are dominated by services and laboratories that rely on culturing or other quantitative tests providing very limited results. Culturing fails to recognise non viable mould spores and fragments - increasingly recognised as more of a health threat than viable mould growth. Damage management "experts" with limited knowledge rely on tests using ATP, Mycometer or Lab culturing that only provide questionable quantitative results.

**MouldScope, the next generation in mould testing** is a portable "lab" for detecting airborne viable and non viable moulds using optical **detection and identification** technology originally developed for the Military to detect biological aerosols. Mouldscope quantifies and identifies the existing mould levels outside the home or building and compares the results to each area scanned within that property. The systems internal technology is also used to inspect and analyse the particulates within the air drawn through the system. Each particle is illuminated by laser, allowing for the unique MouldScope to detect, quantify and identify each mould type using advanced algorithms and to a high level of accuracy. Mouldscope can also be used to assess contamination on furnishings. **Mouldscope is revolutionary technology helping you deal with mould damage situations.**

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**Mouldscope offers advanced technology that allows you to see what's going on in a property by testing the air that flows through every room or over contents.**



**The MouldScope is the only instrument in the world that extends differentiation to bioaerosol classes - fungi, pollen and bacteria - as well as particulate matter, in one operational unit.**

The particles in the air carry data about each room of a building. Each particles optical signature is analysed by the Mouldscope producing “exposure conditions” and turning the complicated gathered data into an easy to understand colour coded - green yellow or red - result based on the severity of the contamination and allowing you investigate or source unwanted contamination or to make instant decisions before issues arise.

**COST EFFECTIVE,**

**FAST**

**AND**

**ACCURATE**

**ON SITE SERVICE**

Traditional air tests are incapable of determining a mould source and only offer a localised snapshot of the damage - NOT SO with the MouldScope. MouldScope can accurately pinpoint active mould levels in each area



Spot testing curtains for mould contamination levels



## BENEFITS

### Accurate Results That Exceed Industry Norms.

As a result of the real time, particle-by-particle data interpretation, the instrument is not restrained by time or cost limitations of the current sampling technologies. Consequently with Mouldscope our technician can in real time - both cost effectively and thoroughly - characterise the complete indoor aerosol environment .

### Immediate Reporting and Instant results.

Allows for real time aerosol source tracking and provision of on-demand reports for the customer.

### Consistent Process.

The inspection process produces large datasets that allow for complex analysis and characterisation of the aerosol environment. A given aerosol sample is compared to the outdoor air, all other indoor samples, and local variations in real-time to identify trends and outliers in the sample set. Additionally, samples are further compared in real time to regional and national databases of indoor aerosol conditions that are constantly being expanded and gaining statistical leverage never before available to those involved in mould damage investigations or decon.

**ACTION DRY  
ARE THE ONLY  
UK COMPANY  
OFFERING THIS  
ADVANCED  
TECHNOLOGY  
AND SERVICE**

Space Age  
technology  
advances on site  
mould detection



## COST EFFECTIVENESS

Traditional testing using cultures or spore counts or even MSQPCR DNA testing have recognised limitations. Culturing only grows viable mould - no good when it is increasingly recognised that non viable spores and fragments are more of a concern. Spore counts, although arguably better, provide limited “snap shots” which only reveal a fraction of what is really in the room or building air unless many tests are undertaken - this is not really economical. DNA testing is sensitive, specific and accurate but restricted to the assays collected. DNA testing can also be very expensive needs a laboratory equipped with the technology and who may take over a week to provide the report - again, not really economical. With the Mouldscope, the air in the entire room can be accessed during one short session giving a much more cost effective, broader and comprehensive sampling intake. The technology of the Mouldscope allows a whole house to be tested more accurately than any other method - in less than an hour - **with instant results** and if required, a report from site.

