

## ONE INSTRUMENT – MULTI PURPOSE

No other test equipment on the market today allows you to separately detect bacterial and fungal contamination on-site in less than an hour.



# BACTIQUANT® SURFACE

## ON-SITE BACTERIAL CONTAMINATION ASSESSMENT

### APPLICATIONS

*Water and flood damage cleanup*

*Building envelope leakage*

*Contamination assessment /delineation*

*Medical and clinical facilities*

*HVAC cleaning/maintenance*

*Carpet and fabric contamination*

*Sewage backflow*

### WHAT IS BACTIQUANT®-SURFACE?

Flooding due to sewage backflow, surface waters or potable water pipe leaks can lead to significant bacterial contamination in a building. The technology behind Bactiquant®-surface has been verified by USEPA and was specifically developed for testing surfaces that have been affected by Category 1, 2 & 3 water sources or potentially contaminated with bacteria. Bactiquant®-surface is also used for testing whether bacterial biofilms have formed e.g. in HVAC condensate pans. This on-site method provides fast results to determine when the level of bacterial contamination requires remediation and the criteria for determining successful cleaning.

### WHY USE BACTIQUANT®-SURFACE?

Traditionally, post flood cleanup testing has focused on pathogens as the main health concern. Evaluation has been based on analysis for fecal bacteria as the indicator of pathogenic bacteria. However, many bacteria, not classified as pathogenic, can still affect the indoor environment and its occupants if present in high concentrations. NIOSH studies have found that Endotoxins, which are present in the cell membranes of all gram negative bacteria, has been associated with many pulmonary diseases. If remediation only focuses on pathogens for cleanup criteria, many other bacteria may remain in place and during the process of drying after a flood, the endotoxins can become aerosolized.

With the Bactiquant®-surface method you can demonstrate the efficacy of cleaning effort and show that the total bacterial level has been reduced to levels found on clean surfaces in non-contaminated buildings. Both pathogenic bacteria and endotoxins are therefore reduced to insignificant levels.

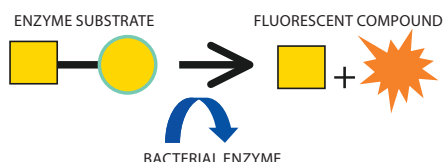


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#### TECHNOLOGY

The new method allows on-site results in an hour and is based on detection of a hydrolytic enzyme activity by use of a very sensitive fluorescence technology. Sampling is performed with sterile swabs which are wetted with sterile saline and used for swabbing 9 cm<sup>2</sup> area. The analysis follows an easy four step process to get results in an hour.



#### INTERPRETATIVE CRITERIA

Hundreds of samples from flooded and non-flooded reference building were collected to establish interpretation criteria:

-  The level of bacterial contamination is like the background level found on visually clean surfaces in non-flooded houses.
-  The level of bacterial contamination is like the level found on visually dirty surfaces in non-flooded houses.
-  The level of bacterial contamination is above the level that can be expected on dirty surfaces in non-flooded houses.

#### BACTIQUANT® ADVANTAGE

Bactiquant®-surface provides:

- **Test On-site.** Determine level of bacterial contamination on surfaces in less than an hour.
- **Repeatable and reliable method.** Robust chemistry and standardized sampling and analysis protocols are the basis of the high reproducibility of this method.
- **Easily interpreted.** The robust chemistry provides defined cut off values for clean/not clean and for normal house level or contaminated house level.

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No other test equipment on the market today allows you to separately detect bacterial and fungal contamination on-site in less than an hour. The unique versatility makes this equipment very cost efficient. By using Mycometer, the practitioner can make reliable, accurate diagnostics of the true microbial conditions in the field.

#### SPECIFICITY

The bacterial enzyme activity that is determined with the method is not unique to bacteria but easily differentiates bacteria from other organisms. The table below shows typical values from parallel sampling on environmental surfaces with either mold- or bacterial growth

	Bactiquant®-surface	Mycometer®-surface
Mold Growth on Wood	3	473
Mold Growth on Insulation	35	4,670
Bacterial Growth on Drain	1,206	8

#### APPLICATIONS

Post flood cleanup - categories 1, 2, & 3, plumbing leaks, building envelope leakage, contamination assessment /delineation, medical and clinical facilities, HVAC cleaning/maintenance, carpet and fabric contamination, food processing/ manufacturing.

#### SENSITIVITY

The interpretive criteria for the method have been adjusted to fit the needs of the IAQ industry. After remediation, the surfaces are typically not intended to be sterile. Rather a reasonable expectation is that the level of bacteria is the same as found in "normal" non-flooded or non-contaminated houses. Although the method is sensitive enough to detect bacteria even on visually clean surfaces in non-contaminated buildings, it is not necessarily an indication of contamination.

#### ADDITIONAL INFORMATION

- Test-kits for analysis can be stored for one year.
- Analytical equipment can be used for both bacterial (Bactiquant®) and mold (Mycometer®) detection
- Proficiency training provided

FOR QUESTIONS OR TO ORDER CONTACT:

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