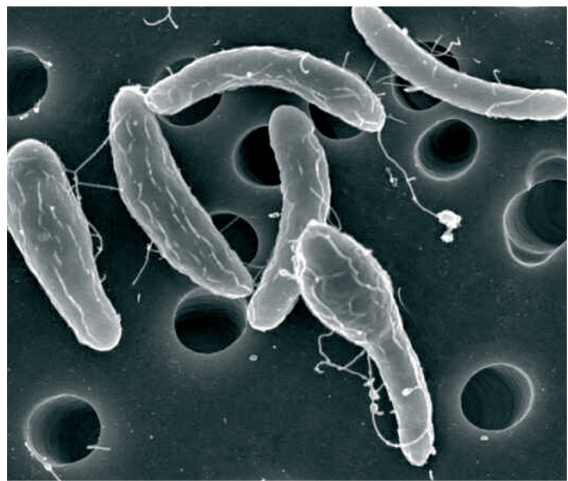


ONE INSTRUMENT – MULTI PURPOSE

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® WATER PUTS YOU IN CONTROL

ON-SITE BACTERIAL CONTAMINATION ASSESSMENT

APPLICATIONS

Water Safety Plans (WSP)

Quality control of ultra pure water or other industrial processes

On-site assessment/delineation

Rapid decontamination testing

Industrial HACCP programs

Assessment/Contamination Isolation Mapping with integrated GIS data handling (Microsoft access/2003 MapInfo version 9,0)

Tracking and delineation of pollution events

Monitor GAC media

Quantify Water Biostability

Establish operational thresholds for response actions

Bactiquant® Database – handle data according to Statistical Process Control (ISO 11462-1)

mycometer
rapid microbiology – on-site technology

MYCOMETER is the leading developer of user friendly, robust and rapid, on-site microbiology methods for the IAQ Industry over the last 10 years.

WHAT IS BACTIQUANT® WATER?

The BactiQuant®Water is a new patented method that provides water companies and the industry with a rapid method to estimate total bacteria in water samples. The method is well suited for HACCP systems and Water Safety Plans in industry and water supply distribution. With BactiQuant®Water, bacterial contaminants can be concentrated from large volumes of water allowing low analysis time (10-30 minutes) even at relatively low bacterial concentrations. BactiQuant®Water can be applied to a range of liquid samples including: potable water, processed water, CIP (cleaning in place) and recreational water. Other liquids include: extracts of a solid material or slurries, suspended or solubilized surface samples and liquid industrial products.

A COMPREHENSIVE RESULT IN NEAR REAL TIME (UNDER 30 MINUTES)

An important feature of the Bactiquant®Water is that it quantifies total suspended bacteria as well as bacteria located on particles. Other test methods cannot measure the particle bound bacteria although more than 90 % of the bacteria in a drinking water sample are located on particles. It has been well documented that there is a direct relation between water biostability and the presence of particle bound bacteria.

SET LIMITS - DEFINE ACTION

The real value of monitoring microbiological water quality lies in the early detection of changes from the normal condition, based on frequent, long term monitoring. Therefore, the starting point for gaining the full potential value of the Bactiquant technology is to establish baselines for normal operation at Critical Control Points.

Use the Bactiquant database software (FDA - 21 CFR Part 11 compatible) to establish operational thresholds for response actions. This approach has been used in the industry for decades and is known as Statistical Process Control (SPC, based on ISO 11462-1) When this approach is applied to Critical Control Points in the water treatment processes, the advantage is that emphasis is on controlling processes rather than apply resources to detecting and correcting problems after they have occurred.

RESPOND SWIFTLY AND SAVE MONEY

By using modern process control, it is possible to identify problems at an early stage and reduce costs associated with critical failures of Water Treatment Processes. The combination of Bactiquant technology and modern process control is a valuable tool from both a cost reduction and a customer satisfaction standpoint.

BactiQuant®Water provides rapid results in near real time for systematic monitoring of water quality. BactiQuant®Water is based on ten years experience of providing robust and reliable technology to professionals and the industry.



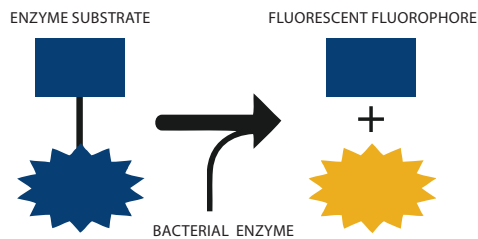
INTERPRETATIVE CRITERIA

The fluorescence signal produced is proportional to the amount of bacteria present in a given water sample. BactiQuant®Water can be used to establish baseline data for water quality. Routine measurements can then be used to detect deviations from baseline and allow immediate actions to be taken. An example:

- Best quality – no activation of control measures.
- Between best quality and unacceptable quality – control measures may be activated.
- Unacceptable quality – High risk of exceeding tolerance limits for total bacteria in water – control measures activated.

TECHNOLOGY

BactiQuant®Water provide on-site results in less than an hour and is based on detection of a hydrolytic enzyme activity by use of a very sensitive fluorescence technology. The enzyme based assay provides a number of advantages to other technologies such as the ATP methods: The chemistry is simple and robust. There is no need for extraction procedures or altering of bacterial cells. The amplifying signal allows for easy adjustment of method sensitivity.

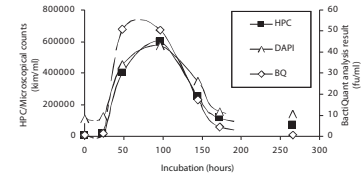


SAMPLING

Water may be sampled directly onto filters from the source using adapters which are attached directly at the water outlet. Other water sample collection options include bottles or syringe samples.

SENSITIVITY AND SPECIFICITY

The sensitivity of the method can be adjusted to fit the needs of the user. Protocols are available for drinking water and ultra pure water. The hydrolytic activity is present in both gram negative and gram positive bacteria. The bacterial activity that is measured with the method is not unique to bacteria. Under natural growth conditions in water systems the activity is predominantly of bacterial origin. Scientific studies have documented good correlations between results with BactiQuant™-water, plate counts as well as microscopic counts.



(Charlotte B. Corfitzen et al., 2006. Rapid Methods for detection of bacteria. Nordic Drinking Water Conference 2006. Reykjavik, Iceland.)

Figure shows dynamic response pattern of BQ results, HPC counts and DAPI microscopic counts in a simulated organic pollution event in drinking water.

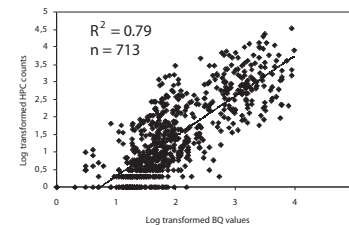


Figure shows scatter plot of BQ values and HPC counts performed according to DS/EN ISO 6222 at the water quality laboratory Copenhagen (KE water).

BACTIQUANT™-WATER ADVANTAGE

BactiQuant®Water provides:

- **Test On-site.** Determine total bacterial level in less than an hour
- **Repeatable and reliable.** The technology is scientifically tested and field proven
- **Easily interpreted results.** The robust chemistry provides reproducible results and defined cut off values.
- **Flexibility in modes of sampling.** Multiple modes of sampling include: bottled samples, direct sampling from tap or syringe driven samples.
- **Tailored solutions.** Portable equipment and stationary laboratory equipment, manifolds for multiple filtrations and portable filtration units allows for tailored solutions that meet individual needs and requirements.

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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 rapid microbiology – on-site technology

Rapid. Repeatable. Robust.

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