



SAFE WATER.
ANYTIME.
ANYWHERE.

BactoSense™ Multi

Automated flow cytometer for multi-point monitoring of bacteria in water

Always a step ahead – capture a precise picture of your complete process

In a world where sustainability meets efficiency, don't waste precious time transporting your many samples to a lab – instead, bring the lab to the samples. BactoSense Multi is a step forward in the evolution of microbiological monitoring. With it, you experience a complete mapping of your production environment: it samples different points of your process and analyses them fully automatically. Never be caught off guard on your production line and enjoy the peace of mind that comes from knowing the quality of your water.

1 Sampling



Processes up to 30 samples, coming from anywhere on your production line.

2 Water analysis



Measures fully automatically without human interaction – also overnight.

3 Complete overview



Provides your results at a glance and helps decision making.

YOUR CHALLENGES

Do you need to monitor the water quality at several points of your production or process line?
 Would you prefer to have a global view on your overall process as well as detect and understand any variations on your network?
 Are you missing the in-house knowledge or resources to perform water testing?
 Do you want to take decisions based on rapid microbiological analysis without having to wait for external lab results?



OUR SOLUTION

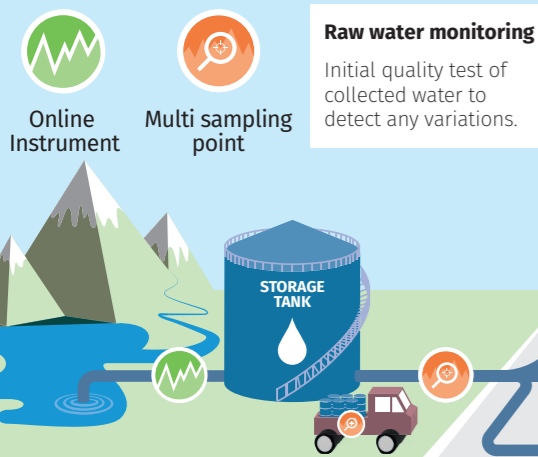
Ease of use

BactoSense Multi is a compact automated flow cytometer for the microbial analysis of water. Thanks to its user-friendly interface, it can be operated by anyone. Up to 30 samples can be loaded and measured without any human intervention.

Accurate

It is proven that plating methods (HPC) only detect 1% of bacteria present in a water sample. The BactoSense technology makes it possible to count 99.9% of them with a high repeatability. Bringing this fast analysis method to the heart of your production accelerates your decision process.

Where to measure your water quality



Water treatment / Process monitoring

Pre-treatment

Monitor coarse filtration and evaluate its efficiency.

Water treatment

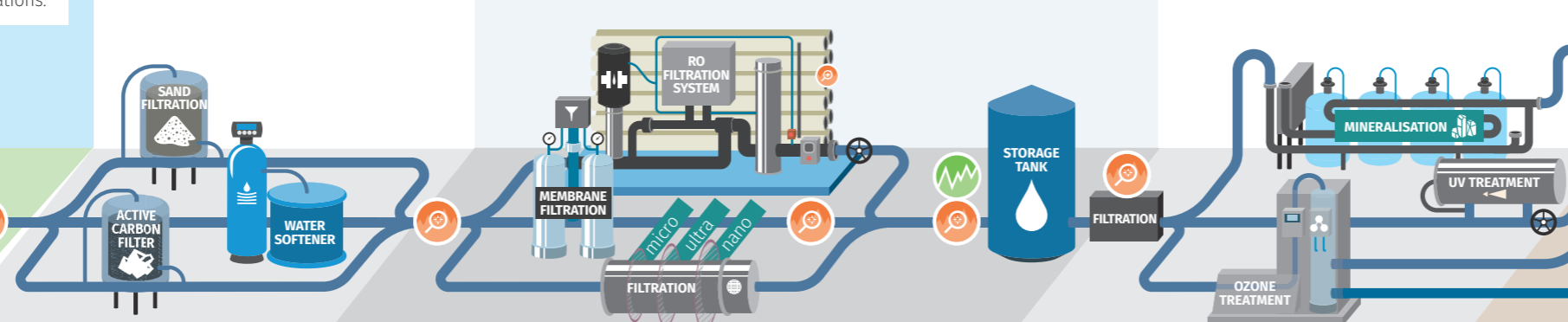
Ensure the elimination of potential microbiological contaminants by checking the effectiveness of the filtration before entering the storage tank.

Storage

Guarantee water stability when entering and leaving the storage tank.

Post treatment

Water may undergo disinfection steps or mineralization. Keeping track of these steps ensures a microbial safe production.



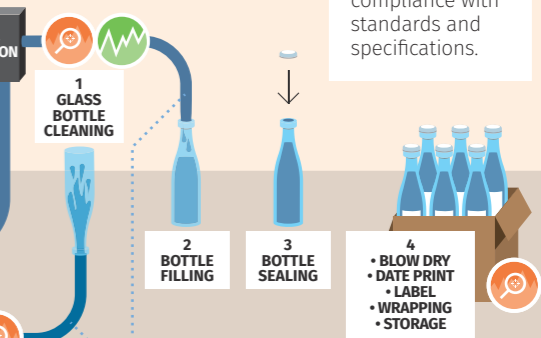
Bottling

Filling line

Supervise highly hygienic bottling, conducted in a microbiologically controlled environment.

Quality Assurance

Verify the microbiological safety of the product and compliance with standards and specifications.



Cleaning-in-place

Line Sanitation

Automated equipment cleaning of all lines with data-driven CIP triggering. Samples analysed before/after sanitation ensure protection.

YOUR WORKPLACES



On the production line

Sampling multiple points gives a complete picture of your line. BactoSense Multi and Online complement each other to reveal the microbial landscape in any situation.

Process engineering

Combining precise mapping and fast time to results enables process optimization, lower costs, reduced waste, and the avoidance of production downtime.

Quality assurance

In industries where high sanitary standards are expected, quality control is required at every step of the production. Results can be accessed remotely anytime for a maximum flexibility.

YOUR BENEFITS

- Complete overview of production
- Can be operated anytime, day and night
- Quick decision, without the involvement of an external lab
- Minimized handling of chemicals
- Optimized production yield
- Low maintenance and low total cost of ownership
- No need for specialists
- Full compatibility when comparing results between Online and Multi



BactoSense Multi – Peace of mind



HOW DOES IT WORK?

The process starts with labeling, scanning and loading the samples into the cooled tray. Then begins their staining, mixing, incubating (1 & 2) and measuring (3 & 4). The results are ready for exploitation after **only 25 minutes** (5).

The sample finishes its course into the integrated waste container (6). The measuring cycle ends with a full cleaning of the instrument (7).

Measurement type tailored by the cartridge

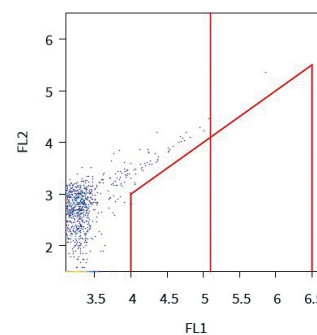
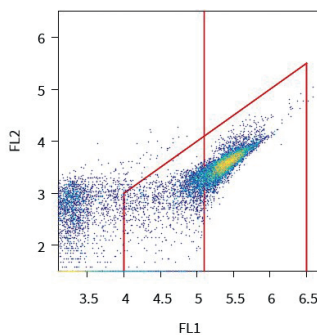
All the results can be retrieved from the database at any time to be evaluated. Depending on the cartridge used, TCC (Total Cell Count) or ICC (Intact Cell Count), specific sample parameters are displayed on the dotplots.



Application example

A water production line can have many treatment steps. Sampling and measuring at different points provide valuable details. For example, before and after a filtration step: not only does it provide a direct assessment of the filtration efficiency, but it also enables a rapid evaluation of the filter integrity to anticipate its cleaning or replacement.

95'000 bacteria / ml
before ultrafiltration



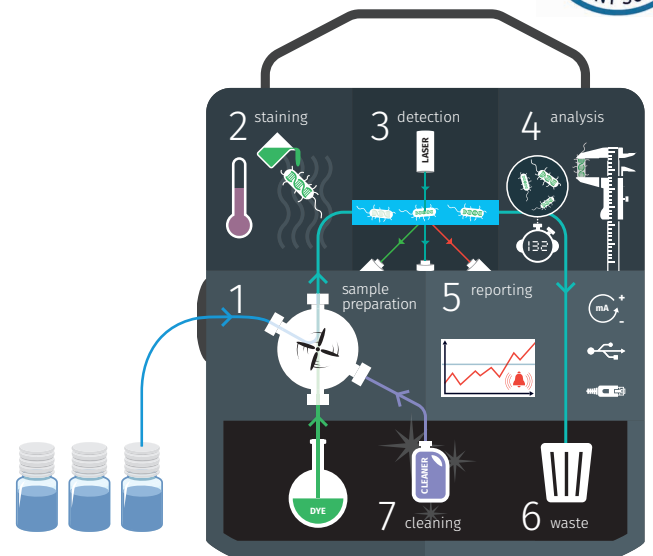
10 bacteria / ml
after ultrafiltration

All this information allows to achieve an optimised process control, with reduced reaction times and increased safety to finally produce a better water quality.



bNovate Technologies SA

Ch. Dent d'Oche 1A · CH-1024 Ecublens
Tel. +41 (0)21 552 14 21
info@bnovate.com · www.bnovate.com



Safe and environmentally friendly handling

The cartridge system of BactoSense minimises any contact with chemicals including their waste. The cartridge is hermetically sealed, quickly replaceable, and reusable. It contains all you need for up to 500 measurements, giving your instrument full autonomy for up to 9 months – depending on the frequency of your analyses.