MICROBIOLOGY

CytoQuant®

Mobile Flow Cytometer

The CytoQuant® mobile flow cytometer enables the immediate verification of cleaning and disinfection by counting bacteria and residue particles found in environmental samples, such as swabs from food contact surfaces or rinse waters.

Ensuring hygiene before production starts

The safety and shelf life of many food products rely heavily on process hygiene. CytoQuant® can make a difference for food producers by giving actionable information about the degree of equipment sanitation before production even starts. The device counts bacteria fast and accurately, enabling risk managers to take focused and effective pre-operational action. It counts all bacterium types, irrespective of growth requirements or physiological state, providing a high-resolution view into production hygiene.

CytoQuant® can also be an essential component of an early-warning system, allowing manufacturers to act before bacterial contamination becomes a problem. Through targeted and tailored sanitation programs, superior production hygiene can be achieved, enhancing product safety and shelf life.

Power meets mobility

CytoQuant® measures bacteria and particulate residue contamination in the food production environment. Separate, precise counts for each are provided in 30 seconds, with no need for pre-treatment, incubation, or chemical reagents, and without being influenced by trace detergents or disinfectants. By employing an impedance-based detection system, CytoQuant® brings the power of flow cytometry – a technology commonly associated with drinking water hygiene – to the convenience of a hand-held device.

What is impedance flow cytometry?

Due to their intact outer layers, viable bacterial cells suspended in an electrolyte solution have electrical properties which vary with the frequency of a passing current, thus eliciting subtle fluctuations in impedance. By measuring these, impedance flow cytometry can differentially count intact cells and other particles in a sample that is passed through a microfluidic flow cell with integrated electrodes.

FEATURES AND BENEFITS

Fast results for bacteria allow for focused and effective pre-operational action aimed at hazard mitigation

→ improved safety

Direct counts for bacteria provide a high-resolution view into production hygiene

→ improved shelf-life, less wastage

Distinct results for bacteria and residue enable the proper monitoring of both disinfection and cleaning

→ easier compliance with food safety standards

Accurate results for bacteria

→ no false alarms, no unnecessary re-sanitizing

Simple test procedure

→ no need for specialized training or access to a lab

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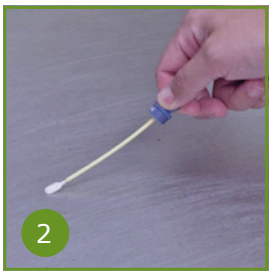
Quick Reference

Carefully read the user manual before performing any test.

Protocol for surface testing

Open the swab kit by unscrewing the swab from the vial.



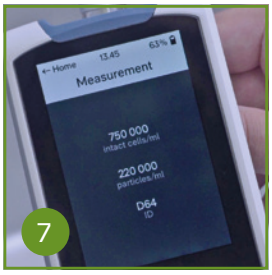
Swab the surface to be tested.

Return the swab into the vial and screw it closed.

Shake to suspend bacteria and residues in the buffer.

Insert the swab kit into the vial port.

Press OK and wait 30 seconds for the results.



Read the results displayed on the screen.

For information on the testing of liquid samples, such as rinse waters, please consult „Instructions for the Testing of Liquid Samples".

Ordering Information

Item	Description	Item No.
CytoQuant® Flow Cytometer (incl. CytoQuant® CountCell™)	1 pc	10006469
CytoQuant® CountCell™	1 pc	10006471
CytoQuant® Swab Kit	72 pcs	10006468
CytoQuant® Cleaning Vial	72 pcs	10007028
CytoQuant® Storage Vial	72 pcs	10007029
CytoQuant® Empty Vial	140 pcs	10006970
CytoQuant® Electrolyte Solution	10 pcs	10007030

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