Bactiquick

Real Time Water Testing

The revolution in rapid water quality testing

The world's first handheld device to test water quality to a lab spec in just 15 minutes.

The lab in your pocket



HANDHELD | EASY TO USE | COST EFFECTIVE

The global challenge: Test water quality, assess risk & act – fast

Water users are at risk from harmful bacteria every day. Invisible to the naked eye, bacteria can flow into our coastal waters, rivers, inland waterways and lakes from untreated sewage, agricultural runoff and wastewater infrastructure.

When it does, contamination can spread fast.



Traditional laboratory testing methods typically take 24–48 hours to deliver results. That's enough time for contamination to spread, for water quality to remain uncertain and to delay critical operational decisions that threaten public health, tourism and recreation.

Public perception is changing.

- Across the USA, **90 million** ear, eye, skin, respiratory and gastrointestinal illnesses are recorded annually from recreational water exposure, at a cost of approx $2.9 billion* each year.
- At the 2024 Paris Olympics, **athletes fell sick** after swimming in the Seine.
- Sea water contamination at a surfing event in Portugal caused **over 100 people** to become ill.
- Within the next two years, global tourism will increasingly prioritise safe-to-swim waters.

*Source: DeFlorio-Barker 2018



The Bactiquick revolution

Bactiquick changes everything.

- The world's first handheld device capable of detecting bacterial contamination in water, delivering lab-comparable results in just 15 minutes.
- Designed for simplicity and portability, enabling rapid, on-site water testing with no need for lab processing.
- Highly cost-effective compared with conventional bacterial water-testing methods.

There is no other product available that offers real-time water testing to this standard at this speed.

Key features:

Fast
Lab-spec water testing results in just 15 minutes

Reliable
Detects a broad range of Gram-negative bacteria, matching leading test kits

Portable
Compact, lightweight handheld device for field use

Easy
Test water in just a few simple steps – no cleaning between tests

The science

Bactiquick uses advanced microbiological detection technology to identify bacterial contamination in water.

The system detects endotoxin, a molecule found in all Gram-negative bacteria. These include several pathogenic bacteria capable of causing serious illness in humans, including:

- **Salmonella**
- **Vibrio**
- **Leptospira**
- **Pseudomonas**

Endotoxin is present across this group of bacteria, which means Bactiquick can detect a wider spectrum of potentially harmful pathogens than conventional tests that focus only on indicators such as *E. coli*.



Real-time testing in 4 quick steps



1 | Collect

Take a water sample.



2 | Prepare

Dilute the sample and combine with the Bactiquick reagent.



3 | Analyse

The device heats the sample to 37°C / 98.6°F while detecting endotoxin as a biomarker of Gram-negative bacteria.



4 | Results

A colour change reaction is converted into an electrical readout indicating the concentration of bacteria present.

Clear, easy-to-understand results.

Results are displayed using a simple traffic-light system.

- **Green** — **Low levels of bacteria** *(low risk)*
- **Orange** — **Moderate bacterial concentration** *(medium risk)*
- **Red** — **High bacterial concentration** *(high risk)*

In addition, the actual numerical value is obtained by connecting to the Bactiquick app, which also provides location data and is freely available for Apple and Android phones.

*The thresholds for the risk levels are based on local bathing water standards for *E. coli.*





Powered by proven, validated technology

Bactiquick is the latest innovation from Molendotech. It builds on the same proven detection technology used in Bacterisk, the industrial water-testing system used by water companies and regulators worldwide.

MolEndoTech

This is a proven platform that demonstrates the reliability and effectiveness of endotoxin-based rapid bacterial detection in real-world environments.

The Bactiquick detection method has been independently validated by Campden BRI.

The science that underpins Bactiquick was developed in the UK at the University of Plymouth and has been published in a number of peer-reviewed journals including:

- **International Journal of Environmental Research & Public Health**
- **Water**
- **Journal of Water & Health**



BACTIQUICK.COM HANDHELD | EASY TO USE | COST EFFECTIVE

A world of potential applications

Bactiquick's revolutionary rapid bacterial detection method presents opportunities for many environments and sectors across the globe.



- **Water utilities**
- **Environmental monitoring agencies**
- **Public health authorities**
- **Recreational water management**
- **Aquaculture and fisheries**
- **Hospitality and tourism locations**
- **Environmental research organisations**

Bactiquick rapid on-site water testing allows organisations to identify contamination events quickly, assess risk and respond faster to protect public health.

It's the testing revolution everyone in water has been waiting for...



Ready to join the water testing revolution?

Bactiquick is available in the UK and USA through authorised distributors:

Nationwide distribution
Simplex Health

T +44 (0)1933 664746
E info@simplexhealth.co.uk
W www.simplexhealth.co.uk

Distribution across Michigan, Wisconsin, Illinois & Indiana
Water Guard

T +1 989 292 7354
E sales@waterguardus.com
W www.waterguardus.com

Bactiquick
Real Time Water Testing

MolEndoTech
A Molendotech product

Scan to contact us

BACTIQUICK.COM HANDHELD | EASY TO USE | COST EFFECTIVE