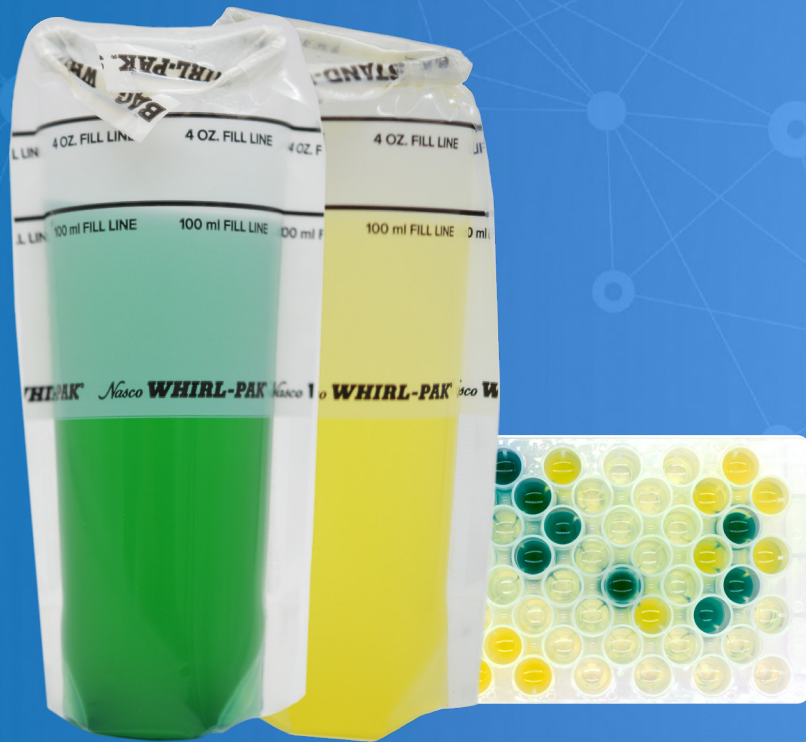


AquaCHROM™ ECC

For presence/absence and enumeration of *E. coli* and coliform in 100 mL water samples



Optimizing Water Quality Control Through Microbial

Overview

Globally, **2 billion¹ people lack** access to safe drinking water, with low-income regions most affected. *Escherichia coli* (*E. coli*) is a main **indicator of fecal contamination in water**, signaling the presence of harmful pathogens.

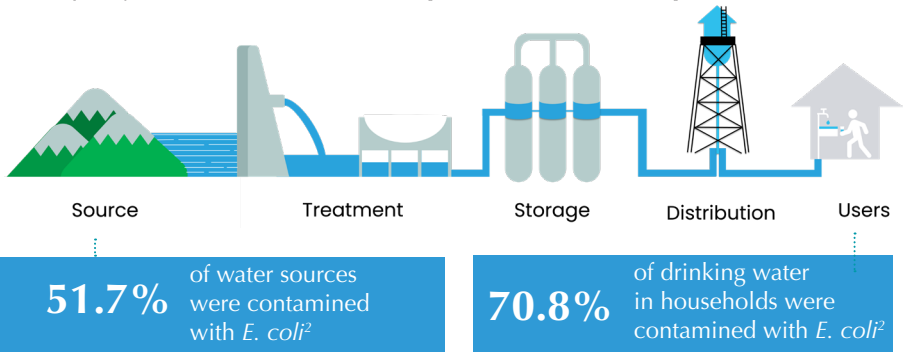
505,000
annually deaths
due to contaminated
water¹

The WHO Guidelines for Drinking-Water Quality and most national standards consider **drinking water safe if no *E. coli* is detected in a 100 mL sample**. Regular **testing for *E. coli*** is crucial to **ensure water safety**, preventing potential health risks and outbreaks.

Drinking Water

A survey conducted by the WHO and IWA of **95,070 households** in **38 countries** revealed:

- **High contamination in drinking water** by *E. coli*
- Water quality often **deteriorates between point of collection and point of use**



This **highlights the importance of testing for the presence/absence of *E. coli*** at different points of the distribution to ensure its safety and quality.

Recreational Water

- Recreational water quality impacts **health, environment**, and the **economy** globally.
- Guidelines such as the **WHO** or ever **European Directive** on Recreational Water Quality establish clear legal frameworks emphasize:

- **Active management strategies**
- **Routine quantification testing**
- **Monitoring and surveillance of contamination levels**

Recent outbreaks :

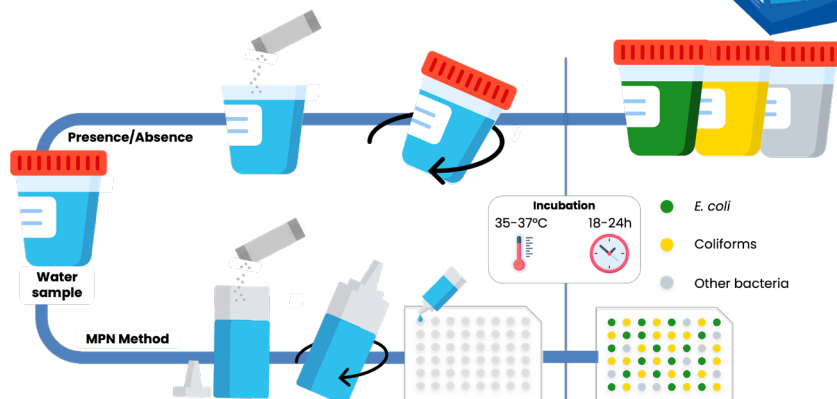
- 🇬🇧 «Thames» - UK, 2023³
 - + 57 infected during Triathlon
 - 39 times higher than the normal *E. coli* levels

- 🇺🇸 «Lake Anna» - USA, 2024⁴
 - + 25 infected
 - 7 children developed a severe complication

AquaCHROM™ ECC is an AOAC-certified selective chromogenic culture medium designed for the **detection, differentiation and quantification of *E. coli* and coliform bacteria** in water.

Our solution provides **rapid and reliable** results with distinct colour differentiation, ensuring **high specificity** and compliance with water quality regulatory standards.

Sensitivity⁵ ≈ 100%
 Specificity⁵ ≈ 100%



Medium performance



AquaCHROM™ ECC, with AOAC certification, demonstrated equivalence to EPA 1604 and FDA/BAM Chapter 4, ensuring reliable detection in various water types.



Results are visible to the naked eye, no UV lamp needed.



Unlike traditional broth, easily distinguish *E. coli* from coliforms.



Quick and simple preparation: under 2 minutes for MPN, less than 30 seconds for presence/absence tests.



No extra equipment is needed, minimizing waste. The dispenser and 48-well plate are reusable and autoclavable.

1- WHO - Drinking Water

2- Santos et al., 2023. J Water Health.

3- The Guardian : «Fifty-seven swimmers fall sick and get diarrhoea at world triathlon championship in Sunderland»

4- Washington Post : «Lake Anna was 'likely source' of Va.'s *E. coli* outbreak. Here's what we know.»

5- Lerner et al., 2013. ASM.

Water Testing: Empowering Detection

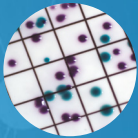
CHROMagar™ has developed a range of selective culture media for the rapid detection of waterborne pathogens, enhancing testing efficiency and accuracy to ensure safer water quality.



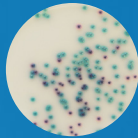
CHROMagar™
E.coli



CHROMagar™
ECC

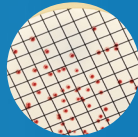


CHROMagar™
Liquid ECC



CHROMagar™
Pseudomonas

Coming
soon



CHROMagar™
P.aeruginosa

**ASK YOUR LOCAL DISTRIBUTOR
FOR MORE INFORMATION**

Reference contact :

CHROMagar™
The Chromogenic Media Pioneer

CHROMagar.com

📍 CHROMagar, 29 avenue George Sand, 93210 La Plaine Saint-Denis, France

For more informations about our products and technical documents, please refer to our website.

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