Water testing

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AquaCHROM™ ECC

For presence/absence and enumeration of *E. coli* and coliforms

CHROMagar™
The Chromogenic Media Pioneer

PERFORMANCE TESTED
AOAC RESEARCH INSTITUTE
LICENSE NUMBER 072202

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

Background

Coliforms, *Enterobacteriaceae* able to ferment lactose, are bacteria present in human and warm blooded animals intestinal flora, in the soil and water. Coliforms are indicators of organic, environmental or faecal contamination.

Strict regulations exist for *E. coli*/coliform abscence in water and food samples. This can be explained by the importance of these germs in determining water and food safety. Worldwide, water and food quality control for human consumption are based on detecting the presence/absence of *E. coli* and coliforms.

E. coli can contaminate drinking water when the water treatment system is inadequate or during periods of very high rainfalls. Monitoring of food and water production is essential. Contamination may lead to suspension of the water supply and food recall by supermarkets.

AquaCHROM™ ECC (Presence/absence and MPN method) has been validated by the AOAC RI under the Performance Tested Methods℠ Program for the analysis of water samples, including tap water, well water, lake water, bottled water,... .

Reading

- *E. coli*
  → green to blue-green liquid
- Other coliforms
  → yellow liquid
- Other
  → colorless +/- growth

Medium Performance (Presence/absence or MPN methods)

1. **SIMPLE METHOD**
   Add the pre-weighed dose of AquaCHROM™ ECC to a 100 mL water sample and swirl (for MPN methods, dispach the mixture into each well).
   Incubate at 35-37°C for 18-24h (for presence/absence and MPN method)

2. **DETECTION BY NAKED EYE**
   No need of UV lamp!
   Species differenciation is based on the use of two chromogens (instead of obsolete use of chromogene + fluorogene).
   For MPN method, refer to AquaCHROM™ ECC MPN table for counting.

3. **VERY SUITABLE FOR FIELD TEST**
   This culture medium has been also designed for tests in areas where neither incubators nor UV lamps are available. Incubation could be carried out at room temperature (>25°C), but it requires extended incubation, and the results are read in daylight. An easy-to-use method!

4. **MATERIALS**
   The dispenser and the 48-well plate can be sterilized by autoclaving after each test to be used again and again!

Medium Description

Powder Base	Total ..... 22.3 g/L Peptone and growth regulators ..... 20.0 Chromogenic and selective mix ..... 2.3 Storage at 15/30°C - pH: 7.1 ± 0.2 Shelf Life ..... 2 years

Usual Samples	100 mL water
Procedure	Incubation at : 35-37°C for 18-24h (for presence/absence and for MPN method) Anaerobic conditions.
Scientific Publications on this product: available on www.CHROMagar.com Please read carefully the instructions for use (IFU document) available on www.CHROMagar.com	

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LF-EXT-028-EN

Order References

Please use this product reference when contacting your local distributor:
100*100 mL doses AQ056

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