

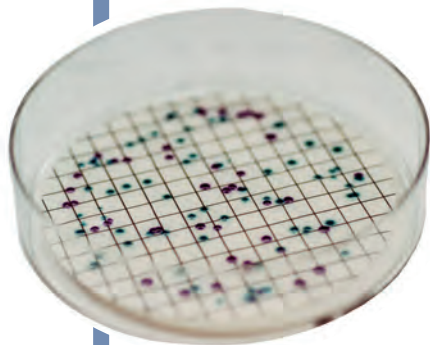
IVD solutions through partnership



## CHROMagar™ Liquid ECC

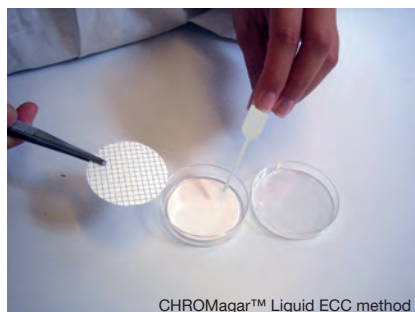
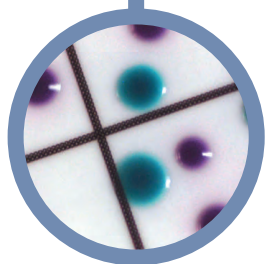
For the simultaneous detection and enumeration of *E.coli* and other coliforms

# ● CHROMagar™ Liquid ECC



## Plate Reading

- *E. coli*  
→ blue
- Other coliform bacteria  
→ purple
- Other gram negative bacteria  
→ colourless or inhibited



CHROMagar™ Liquid ECC method

## Manufacturer:

CHROMagar  
4 place du 18 juin 1940 75006 Paris - France  
e-mail: CHROMagar@CHROMagar.com  
www.CHROMagar.com

## For the simultaneous detection and enumeration of *E. coli* and other coliforms in water samples

### Background

Strict regulations exist for *E. coli*/Coliform presence in water 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 and enumerating *E. coli* and coliforms.

Coliforms, *Enterobacteriaceae* able to ferment lactose, are bacteria present in human and warm-blooded animal intestinal flora, in the soil and water. Coliforms are proof of organic, environmental or faecal contamination. Faecal contamination, due to coliforms coming from animal waste, consists mainly of *Escherichia coli* and thermotolerant *Klebsiella*.

*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. High contamination may lead to suspension of the water supply and food recall by supermarkets.

In the U.S.A. the EPA recommendations through the Total Coliform Rule (TRC) are:

- <1000 CFU/100 mL for a fishing and boating water quality.
- <100 CFU/100 mL for a body-contact recreation water quality.
- <1 CFU/100 mL for a drinking water quality.

### Medium Performance

CHROMagar™ Liquid ECC is an innovative chromogenic culture medium to be used in broth form (without agar) within the water filtration technique, to impregnate the pad. You can take an aliquot so to prepare the exact quantity of broth you desire. Thanks to this flexibility, you get rid of the prepared media stock and shelf life management headaches and be assured to always work with fresh media.

#### Simplicity

- 1 Very easy to prepare compared to agar based culture media.

#### Economic

- 2 Only 2 mL/test (instead of the 10-20 mL for other culture media).

#### Easy method

- 3 CHROMagar™ Liquid ECC allows a simultaneous detection and differentiation between *E. coli* and coliforms in one medium. This is helpful to determine if there is organic contamination (coliforms) or faecal contamination (*E. coli*). The use of this technique involves less work in comparison with traditional methods (MI Agar).

#### Easy to read thanks to high colony colour contrast

- 4 There is no mixing of both colours (contrary to other chromogenic media on the market). Colonies are either purple or blue.

### Medium Description

Powder Base	
Total .....	25.5 g/L
Peptone and Yeast extract .....	16.0
NaCl.....	5.0
Chloramphenicol .....	4.5
Storage at 15/30 °C - pH: 7.1 +/-0.2	
Shelf Life .....	3 years

Usual Samples	water
Procedure	Incubation 18-24 h, 37 °C. Membrane Filtration Technique. Aerobic conditions. Total coliforms detection: Incubation 18-24 h, 30 °C. Faecal coliforms detection: Incubation 18-24 h, 44 °C.

Scientific Publications on this product: available on [www.CHROMagar.com](http://www.CHROMagar.com)  
Please read carefully the instructions for use (IFU document) available on [www.CHROMagar.com](http://www.CHROMagar.com)

**Distributed by:**  
Mast Diagnostica GmbH  
Feldstraße 20  
DE-23858 Reinfeld

Tel: +49 (0)4533 2007 0  
Fax: +49 (0)4533 2007 68  
e-mail: [mast@mast-diagnostica.de](mailto:mast@mast-diagnostica.de)  
[www.mastgrp.com](http://www.mastgrp.com)

### Ordering Information

Product	Order Code
CHROMagar™ Liquid ECC dry media, 5 liter	15EL382