

IVD solutions through partnership



CHROMagar™ ECC

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

CHROMagar™
The Chromogenic Media Pioneer

● CHROMagar™ ECC

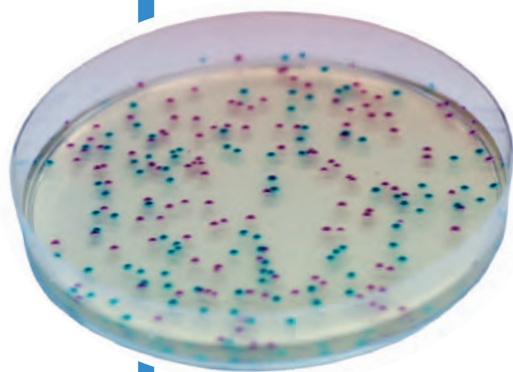
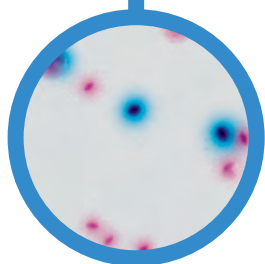


Plate Reading

- *E.coli*
→ blue
- Other Coliforms
→ mauve
- Other bacteria
→ colourless or inhibited



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

Background

Coliforms, *Enterobacteriaceae* able to ferment lactose (lactose positive *Enterobacteriaceae*), are bacteria present in human and warm blooded animals 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*.

Strict regulations exist for *E.coli*/Coliform presence in water and food samples. This can be explained by the importance of these germs in determining water and food safety.

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

1

Simultaneous detection and differentiation

CHROMagar™ ECC allows 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).

2

Easy to read

thanks to the high colour contrast between colonies. There is no mixing of both colours (unlike some other chromogenic media on the market). Colonies are either mauve or blue (no metallic blue nor purple).

3

Convenient

The media can be used as a poured plate, for isolation, as a support for membrane filtration techniques, or melted with the pour technique.

Medium Description

Powder Base	
Total	32.8 g/L
Agar	15.0
Peptones and yeast extract	8.0
NaCl	5.0
Chromogenic mix	4.8
Storage at 15/30 °C - pH: 7.2 +/-0.2	
Shelf Life	> 18 months

Usual Samples	Processed food, raw materials, water, milk & environment samples
Procedure	Pouring, Isolation or membrane filtration technique. Incubation 24 h, 37°C. Total coliforms detection: Incubation 24 h, 30 °C. Faecal coliforms detection: Incubation 24 h, 44 °C. Aerobic 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

Manufacturer:

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

Ordering Information

Product	Order Code
CHROMagar™ ECC dry media, 5 liter	15EF322
CHROMagar™ ECC ready to use plates, 20 pcs.	201401