

CHROMagar™ O157

Chromogenic medium for the isolation and differentiation of *E.coli* O157

article number EE220 : 1000 ml bottle
article number EE222 : 5000 ml bottle
article number EE223 : bulk size

NT-EXT-003
Version 6

STORAGE Store the powder at 15/30°C until the shelflife date indicated on the label.

COMPOSITION in g/L Agar 15.0; Peptone and yeast extract 13.0; Chromogenic mix 1.2; pH : 7.0 +/- 0.2 (Classical formula adjusted and/or supplemented as required to meet performance criteria).

PREPARATION For pre-weighed dose of medium, add dry powder to the corresponding volume of purified water. Alternatively, suspend the medium in the proportion of 29.2 g/L of purified water. Disperse powder slowly in water by rotating for swelling of the agar. Heat and bring to boiling (100°C) while swirling or stirring regularly. If using an autoclave, do so without pressure. DO NOT HEAT TO MORE THAN 100°C. The mixture may also be brought to a boil in a microwave oven: after initial boiling, remove from oven, stir gently, then return to oven for short repeated bursts of heating until complete fusion of the agar grains has taken place (large bubbles replacing foam). Cool in a water bath to 45-50°C.

Note 1 : if a more selective, and more specific, medium is needed, add a solution of Potassium Tellurite to obtain a final concentration of 2.5 mg/l at 48°C.

Note 2 : in case of product samples containing a high load of *Proteus*, Cefixime can be added at 0.025 mg/l at 48°C.

Note 3 : in case of product samples containing a high load of *Pseudomonas* and/or *Aeromonas*, Cefsulodin can be added at 5 mg/l at 48°C.

Swirl or stir gently to homogenise. Pour into sterile Petri dishes or tubes and allow to gel and dry.

Store in the dark. Prepared media plates can be kept for one day at ambient temperature. Plates can be stored for up to two weeks under refrigeration (2/8°C) if properly prepared and protected from light and dehydration.

INOCULATION If the agar plate has been refrigerated, allow to warm to room temperature before inoculation. Streak sample onto plate and incubate at 37°C for 24 hours.

INTERPRETATION

Microorganism → Typical colony appearance

<i>E.coli</i> O157	→ mauve
Coliforms, etc.	→ steel blue
<i>Proteus</i> , etc.	→ colourless to grey

Performance has not been established.

DISPOSAL OF WASTE After interpretation all plates should be destroyed by autoclaving at 121°C for at least 20 minutes.

English. For Research Use Only, Not for diagnostic Procedures. Laboratory product to be used only by trained personnel.

BIBLIOGRAPHY

Wallace, J.S. and K. Jones. 1996. The Use of Selective and Differential Agars in the Isolation of *E.coli* O157 from dairy herds. J. Appl. Bacteriol. 81: 663-668

Wallace, J.S. et al. 1997. Isolation of Vero cytotoxin-producing *E.coli* O157 from wild birds. J. Appl. Bacteriol. 82: 399-404

Bettelheim K.A.1998. Reliability of CHROMagar O157 for the Detection of Enterohaemorrhagic *E.coli* (EHEC) O157 but not EHEC Belonging to Other Serogroups. J. Appl. Microbiol. 85: 425-428

Available from CHROMagar :

CHROMagar™ Candida
Differentiation of major pathogenic *Candida* species

CHROMagar™ Orientation
Differentiation of urinary tract pathogens

Rambach™ Agar
Detection of *Salmonella* spp

CHROMagar™ Salmonella
Detection of *Salmonella* including *S. Typhi*

CHROMagar™ Salmonella Plus
Detection of *Salmonella* according to the ISO 6579:2002 norm

CHROMagar™ O157
Detection of *E.coli* O157

CHROMagar™ E.coli
Detection and enumeration of *E.coli*

CHROMagar™ ECC
Detection and enumeration of *E.coli* and coliforms

CHROMagar™ Liquid ECC
Broth for pad technique for *E.coli*-coliforms

CHROMagar™ Staph aureus
Detection and enumeration of *Staphylococcus aureus*

CHROMagar™ MRSA
Detection of MRSA including low level MRSA

CHROMagar™ Listeria
Detection and enumeration of *Listeria monocytogenes*

CHROMagar™ Vibrio
Detection and enumeration of *Vibrio parahaemolyticus*, *Vibrio vulnificus* and *Vibrio cholerae*

CHROMagar™ VRE
Detection of *E.faecium* VRE & *E.faecalis* VRE

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