CHROMagar™ STEC

Chromogenic medium for the detection of STEC type *E.coli*

article number ST160(B) : 1000 ml bottle
article number ST160(S) : 2 x 500 ml freeze dried vials

STORAGE Store until the shelf life date indicated on the labels:
CHROMagar STEC base, ref ST160(B) → at 15/30°C
CHROMagar STEC supplement, ref ST160(S) → at 15/30°C

COMPOSITION in g/L Agar 15,0; Peptones and yeast extract 8,0; Salts 5,2 ; Chromogenic mix 2,6; pH : 6,9 +/- 0,2 (Classical formula adjusted and/or supplemented as required to meet performance criteria).

PREPARATION

• Suspend the 30,8 g of the **CHROMagar STEC base,** ref ST160(B) in 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. Swirl or stir gently to homogenise.

• Aseptically rehydrate **TWO** freeze dried vials of **CHROMagar STEC supplement,** ref ST160(S) with 5ml of sterile water each. Swirl well until complete dissolution.

• Add these 2x5 ml solutions of **CHROMagar STEC supplement** to the **CHROMagar STEC base** cooled at 45-50°C. Swirl 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 one month 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 18-24 hours.

INTERPRETATION

(Fluorescence to be read under UV light at 365 nm.)

Microorganism	**→ Typical colony appearance**
E.coli O157	→ mauve
E.coli O26	→ mauve & fluorescent
Other STEC *E.coli*	→ mauve ± fluorescent
Other Enterobacteriacae	→ colourless, blue or inhibited
Gram positive bacteria	→ inhibited

Performance has not been established.

LIMITATIONS

Some other serotypes than O26/O157 *E.coli* could have a poor or no growth on the media.
Some rare strains of non-STEC *E.coli* could appear as mauve colonies w/o fluorescence.
Final confirmation as STEC *E.coli* must be done by appropriate methods.

DISPOSAL OF WASTE

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

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

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™ StrepB
Detection of *Streptococcus agalactiae* (GBS)

CHROMagar™ ESBL
Detection of ESBL-producing bacteria

CHROMagar™ KPC
Detection of ESBL-producing bacteria

CHROMagar™ Acinetobacter
Detection of Carbapenem-resistant bacteria

Visit CHROMagar on internet via http://www.chromagar.com

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