

CHROMagar™ ECC

**Chromogenic medium
for the detection
and enumeration of
E.coli and coliforms**

ref. EF320 : 4x250ml pack
ref. EF322 : 5000ml bottle

CHR  **Magar**
Microbiology

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COMPOSITION* :

Agar, 15 g/l; Chromogenic mix, 4.8 g/l;
Peptone, and yeast extract, 8 g/l;
Sodium chloride, 5 g/l. pH : 7.2.

*(Classical formula adjusted and/or
supplemented as required to meet
performance criteria).

PREPARATION :

• According to quantities desired, weigh
out powder and use in the proportion
32.8 g/l of purified water, or use full
pre-weighed dose with corresponding
volume of purified water.

• Disperse powder slowly in water by
rotating until swelling of the agar.

• Bring to a boil (100°C) by repeated
heatings, swirling or stirring regularly. If
using an autoclave, do so without
pressure. DO NOT HEAT TO MORE THAN
100°C. Mixture may also be brought to a
boil in a microwave oven. In this case,
after initial boiling, remove from oven to
stir gently, return to oven for short
repeated heatings. Continue until
complete fusion of agar grains (large
bubbles replacing foam : about 2 minutes).

• Cool in a water bath to 48°C.

*Note: in case of product samples
containing a high load of Pseudomonas
and/or Aeromonas, cefsulodin can be
added at 7.5 mg/l.*

• If using pouring technique
procedure: Prepare 90mm Ø sterile
Petri dishes and add 1 ml of inoculum in
each. Then pour 10ml of melted medium.
Mix and let solidify. Invert and incubate at
37°C for 24 hours*.

• If using surface technique
procedure: Pour medium into Petri
dishes. Store in the dark before use.
Streak the sample or place the inoculated
membranes on plate surface and incubate
at 37°C for 24 hours*.

* If research is focused on fecal coliform bacteria,
incubate at 44°C. If research is targeted to maximise
total coliform detection, incubate at 30°C

INTERPRETATION :

micro-organism	---> typical colony aspect
<i>E.coli</i>	---> blue
other (feecal*) coliform bacteria	---> red
other Gram negative bacteria	---> colorless

* in the case of incubation at 44°C

Laboratory product to be used only by trained personnel