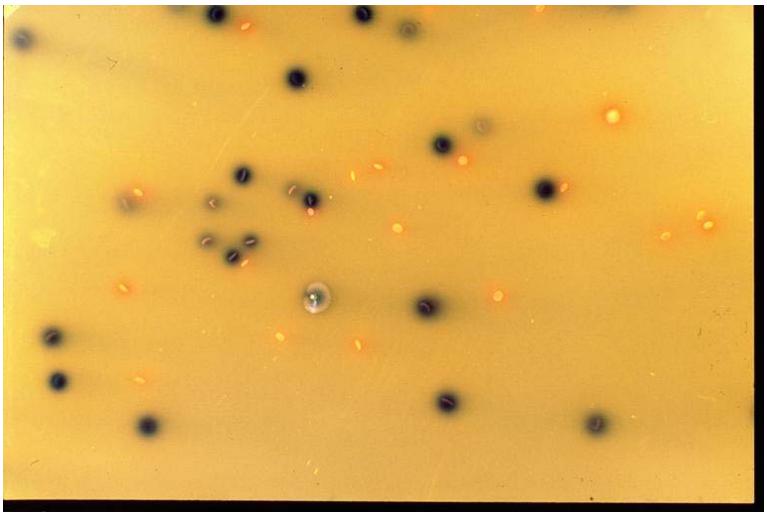
CHROMOGENIC COLIFORM AGAR

Ready to use in flasks chromogenic medium
for the simultaneous detection of coliforms and *Escherichia coli.*



Chromogenic Coliform Agar: *E.coli* (blue colonies) and *E.aerogenes* (salmon colonies)

TYPICAL FORMULA (g/l)

Tryptose	10.00
Tryptophan	0.10
Peptocomplex	5.00
Yeast Extract	3.00
Sodium Chloride	5.00
Bile Salts n.3	1.50
IPTG	0.10
X-GLUC	0.06
Salmon GAL	0.15
Agar	13.00

DIRECTIONS

Dissolve the contents of the bottle by boiling in a temperature controlled water bath. Cool to 50°C and distribute into sterile Petri dishes.
Final pH 7.0 ± 0.2

DESCRIPTION

Chromogenic Coliform Agar is a selective and differential medium for the simultaneous detection of *E. coli* and coliform bacteria in waters and foods.
The medium is made selective by the presence of bile salts; the differentiation between coliforms and *E. coli* is given by the presence of Salmon-GAL, a chromogenic substrate for the detection of β-galactosidase and X-GLUC, a chromogen substrate for the detection of β- glucuronidase.
Salmon-GAL is hydrolysed by coliforms releasing a salmon colour pigment; this reaction is strengthened in the medium by the presence of IPTG (isopropil-β-D-thiogalactopiranoside).
X-GLUC is hydrolysed, among enterobacteria, by *E. coli*, and by a few other strains of *Salmonella* and *Shigella* releasing a blue pigment.
The presence of tryptophan in the medium allows testing the indole directly onto the colonies by adding Kovac's Reagent, for the confirmation of *E. coli*.

TECHNIQUE

Carry out the simultaneous detection of coliform bacteria and *E. coli*, following the usual methods with surface streaking, poured plates or MF techniques and with incubation at 37°C for 18-24 hours: The colonies appearance is the following:
Escherichia coli: dark blue colonies, indole positive
Coliforms (other than *E. coli*); salmon coloured colonies
Proteus: colonies with bright brown halo
Other *Enterobacteriaceae*: colourless colonies
Gram-positive bacteria are usually inhibited.
The Indole test is carried out by adding about 1ml of Kovac's Reagent to the colonies and observing the formation of a red colour within 1-2 minutes.
If the faecal coliforms detection is required, incubate the inoculated plates at 44°C for 18-24 hours.

STORAGE

Store at 2-8° - When stored as directed the plates remain stable until the expiry date shown on the label. Do not use beyond stated expiry date.

PACKAGING

5112992	**Chromogenic Coliform Agar**	**6 x 100 ml ready to use flasks**