

E.COLI-ENTEROBACTERIA CHROMOGENIC AGAR

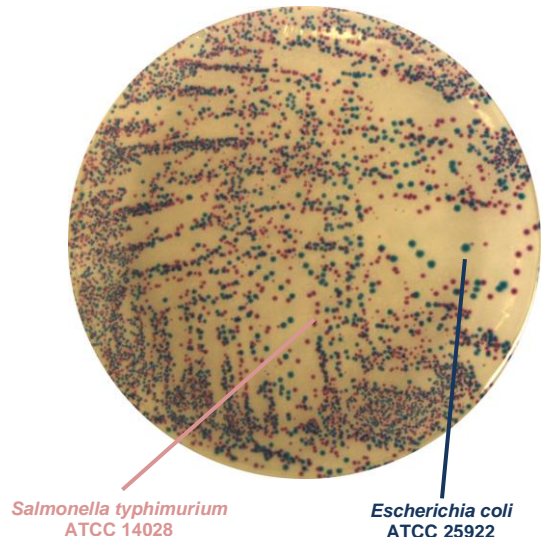
CAT Nº: 2018

For the differentiation of *E.coli* and Enterobacteria in foods

FORMULA IN g/l

Nutrients	16.00	Bacteriological Agar	14.00
Chromogenic Mixture	0.50		

Final pH 7.1 ± 0.2 at 25°C



PREPARATION

Suspend 30.5 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution AVOID OVERHEATING. DO NOT AUTOCLAVE. Cool to 45-50°C, mix well and dispense into plates. The prepared medium should be stored at 2-8°C. The color of the prepared medium is clear amber slightly opalescent.

The dehydrated medium should be homogeneous, free-flowing and beige in color. If there are any physical changes, discard the medium.

USES

E.COLI-ENTEROBACTERIA CHROMOGENIC AGAR is used for the differentiation of *E.coli* from the rest of Enterobacteria.

In the same plate it is able to enumerate *E. coli* and enterobacteria.

The medium can be inoculated directly with the loop. Incubate at 35±2°C during 18-24 hours. *E.coli* is easily distinguishable due to the dark blue-greenish blue colony color. Enterobacteria will growth as Magenta colonies. The rest of bacteria are inhibited, and in case of growing, they will grow as colorless colonies.

Note: Some Shigella strains contain the same enzyme as *E.coli* and can grow as light blue colonies. *E.coli* 0157:H7 do not contain the enzyme to produce blue colonies and will grow magenta.

MICROBIOLOGICAL TEST

The following results were obtained from type cultures in the performance of the medium after incubation at a temperature of 35± 2°C and observed after 18-24 hours.

Microorganisms	Growth	Colony color
<i>Escherichia coli</i> ATCC 8739	Good	Dark Blue- greenish blue
<i>Escherichia coli</i> ATCC 25922	Good	Dark Blue- greenish blue
<i>Escherichia coli</i> spp	Good	Dark Blue- greenish blue
<i>Salmonella typhimurium</i> ATCC 14028	Good	Pink
<i>Salmonella typhi</i> ATCC 6539	Good	Pink
<i>Salmonella enteritidis</i> ATCC 13076	Good	Pink
<i>Shigella flexneri</i> ATCC 12022	Good	Pink

<i>Staphylococcus aureus</i> ATCC 6538	Inhibited	-
<i>Enterococcus faecalis</i> ATCC 29122	Inhibited	-

BIBLIOGRAPHY

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STORAGE

Once opened keep powdered medium closed to avoid hydration.

