

**Product :
GLUCOSE BROMOCRESOL PURPLE
AGAR**
Specification

Solid medium for the confirmation of enterobacteria in diverse samples according to ISO standards.

Formula * in g/L

Casein peptone.....	10,000
Yeast extract.....	1,500
Dextrose.....	10,000
Sodium chloride.....	5,000
Bromocresol purple.....	0,015
Agar.....	15,000

Final pH 7,0 ±0,2 at 25 °C

* Adjusted and /or supplemented as required to meet performance criteria

Directions

Suspend 41,5 g of powder in 1 L of distilled water and bring to the boil. Distribute into suitable containers and sterilize in the autoclave at 121°C for 15 minutes.

Description

This medium is used to confirm enterobacteria by their ability to ferment glucose. Glucose fermentation can be detected by the production of acid that change pH and hence the colour of the medium to yellow.

Quality control

Incubation temperature: 37°C ±1

Incubation time: 24 h ± 2

Inoculum: Practical range 100±20 CFU. min. 50 CFU (productivity), according to ISO 11133:2014/Amd 1:2018. Spiral Plate Method.

Microorganism	Growth	Remarks
<i>Escherichia coli</i> ATCC® 8739	Good	Yellow medium D(+)
<i>Escherichia coli</i> ATCC® 25922	Good	Yellow medium D(+)
<i>Salmonella typhimurium</i> ATCC® 14028	Good	Yellow medium D(+)
<i>Salmonella enteritidis</i> ATCC® 13076	Good	Yellow medium D(+)

References

- ATLAS, R.M. & L.C. PARKS (1993) Handbook of Microbiological Media. CRC Press. Boca Raton. Fla.
- ISO 8523 Standard (1991) Microbiology: Guidance for the detection of Enterobacteriaceae with pre-enrichment. Ginebra.
- ISO 4702 Standard (1993) Microbiology: Guidance for the enumeration of Enterobacteriaceae without resuscitation. MNP technique and colony count technique. Ginebra.
- ISO 21528-1 Standard (2004) Microbiology of food and animal feeding stuffs. - Horizontal methods for the detection and enumeration of Enterobacteriaceae. - Part 1: Detection and enumeration by MPN technique with pre-enrichment.
- ISO 21528-2 Standard (2004) Microbiology of food and animal feeding stuffs. - Horizontal methods for the detection and enumeration of Enterobacteriaceae. - Part 2: Colony-count method.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.

Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).