

Bromocresol Purple Azide Agar



Medium used for the identification and determination of the presence of Enterococci in the bacteriological analysis of water.

• CONTENTS (Liter)

Tryptone	10.0 g
Yeast Extract	10.0 g
Glucose	5.0 g
Sodium Chloride	5.0 g
Monopotassium Phosphate	2.7 g
Dipotassium Phosphate	2.7 g
Sodium Azide	0.5 g
Bromocresol Purple	0.032 g
Agar	15.0 g
Final pH = 7.0 ± 0.2 at 25°C	

• PROCEDURE

Suspend 50.93 G of powder in 1 L of distilled or deionized water. Add 5 mL of Glycerol supplement (MB-G1821). Heat to boiling until completely dissolved. Sterilize by autoclave at 115°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

• INTERPRETATION

Bromocresol Purple Azide Agar is a medium used for the identification and determination of the presence of Enterococci in the bacteriological analysis of water. Tryptone provides nitrogen, carbon, vitamins and minerals for growth of microorganisms. Yeast extract provides vitamins. Glucose is the fermentable carbohydrate. Sodium chloride maintains the osmotic balance. Phosphates are the buffering agents. Sodium azide inhibits most of the other accompanying bacteria. Bromocresol purple is the pH indicator. The addition of glycerol increases glucose fermentation by Enterococci. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 36 ± 1°C for 24 - 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

Prepared medium

Appearance: clear to slightly opalescent

Color: purple

Incubation conditions: 36 ± 1°C / 24 - 48 hours

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Enterococcus faecalis</i>	29212	50-100	good	yellow colonies
<i>Streptococcus agalactiae</i>	13813	≥10 ³	noon to poor	-
<i>Staphylococcus aureus</i>	25923	≥10 ³	inhibited	-
<i>Escherichia coli</i>	25922	≥10 ³	inhibited	-

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

• REFERENCES

1. HAJNA, A.A.: A buffered azide glucose-glycerol broth for presumptive and confirmative tests for faecal Streptococci- Publ.Health Lab., 9; 80- 814 (1951).
2. HAJNA,A.A., a . PERRY, C.A.:Comparative Study of Presumptive and Confirmative Media for Bacteria of the Coliform Group and for Fecal Streptococci.- Am.J.Publ.Health, 33;550-556

• PACKAGE

Cat. No : MB-B0732 Bromocresol Purple Azide Agar	500 G
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