

# BAGG (Buffered Azide Glucose Glycerol) Broth



Medium used for the cultivation and identification of faecal Streptococci.

## • CONTENTS (Liter)

Tryptose	20.0 g
Glucose	5.0 g
Sodium Chloride	5.0 g
Sodium Azide	0.5 g
Bromocresol Purple	0.015 g
Dipotassium Phosphate	4.0 g
Monopotassium Phosphate	1.5 g
Final pH = 6.9 ± 0.2 at 25°C	

## • PROCEDURE

Suspend 36.02 G of powder in 1 L of distilled or deionized water. Add 5 mL of Glycerol supplement (MB-G1821). Mix well. 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 tubes.

## • INTERPRETATION

BAGG (Buffered Azide Glucose Glycerol) Broth is a medium used for the cultivation and identification of faecal Streptococci. Tryptose provides essential growth substances, such as nitrogen and carbon compounds, sulphate and trace ingredients. Glucose provides carbohydrates. Sodium chloride maintains the osmotic balance. Sodium azide is inhibitory to Gram-negative microorganisms. Bromocresol purple is the pH indicator. Dipotassium phosphate and monopotassium phosphate are buffering agents. Glycerol provides the source of carbon and energy.

## • TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 45°C for 18 - 24 hours up to 48 hours. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige to light purple

### Prepared medium

Appearance: clear

Color: purple

Incubation conditions: 45°C / 18 - 24 hours up to 48 hours

Microorganism	ATCC	Inoculum CFU	Growth	Acid
<i>Enterococcus faecalis</i>	29212	50-100	good	yellow
<i>Enterococcus faecium</i>	19434	50-100	good	yellow
<i>Escherichia coli</i>	25922	≥10 <sup>3</sup>	inhibited	-
<i>Streptococcus pyogenes</i>	19615	≥10 <sup>3</sup>	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. 1951. Public Health Lab. 9:80.
2. Hajna and Perry. 1943. Am. J. Public Health 33:550.
3. MacFaddin. 1985. Media for isolation-cultivation-identification-maintenance of medical bacteria, vol. 1. Williams & Wilkins, Baltimore, Md.

**• PACKAGE**

Cat. No : MB-B2119 BAGG (Buffered Azide Glucose Glycerol) Broth	500 G
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