

# Azide Blood Agar



Medium used for the isolation of *Streptococci* and *Staphylococci* from faeces, waters and foods.

## • CONTENTS (Liter)

Tryptose	10.0 g
Beef Extract	3.0 g
Sodium Chloride	5.0 g
Sodium Azide	0.2 g
Agar	15.0 g
Final pH = 7.2 ± 0.2 at 25°C.	

## • PROCEDURE

Suspend 33.2 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Aseptically add 5% of sterile Horse Blood Defibrinated (MB-H1883) or Sheep Blood Defibrinated (MB-S1876). Mix well. Dispense in petri dishes.

## • INTERPRETATION

Azide Blood Agar is a medium used for the isolation of *Streptococci* and *Staphylococci* from faeces, waters and foods. Tryptose and beef extract provide nitrogen, vitamins and nutrients. Sodium chloride maintains osmotic balance. Sodium azide is inhibitory to gram-negative microorganisms. Agar is the solidifying agent.

## • TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 35 ± 2°C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: tan.

### Prepared medium

Appearance: slightly opalescent.

Color: cherry red.

Incubation conditions: 35 ± 2°C / 18 - 24 hours

Microorganism	ATCC	Inoculum CFU	Growth	Haemolysis
<i>Escherichia coli</i>	25922	≥10 <sup>3</sup>	inhibited	-
<i>Enterococcus faecalis</i>	19433	50-100	good	alpha/gamma
<i>Staphylococcus aureus</i>	25923	50-100	good	beta
<i>Streptococcus pneumoniae</i>	6303	50-100	good	alpha
<i>Streptococcus pyogenes</i>	19615	50-100	good	beta

## • 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 or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

## • REFERENCES

1. Snyder, M.L, and H.C. Lichstein. 1940. J. Infect. Dis. 67:113.
2. Ruff, K.L. 1995. "Streptococcus", 17, p.283-296. In Murray, Baron. Manual of clinical microbiology, 7th ed. American Society for Microbiology.
3. Isenberg, H.D. (ed.). 1992. Clinical microbiology procedures handbook, vol. 1. American society for microbiology, Washington D.C.

## • PACKAGE

Cat. No : MB-A1153 Azide Blood Agar	500 G
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