

# Azide Violet Blood Agar

Medium used for the isolation and cultivation of Streptococci.

## • CONTENTS (Liter)

Tryptose	20.0 g
Sodium Chloride	5.0 g
Sodium Azide	0.2 g
Crystal Violet	0.002 g
Agar	15.0 g
Final pH = 7.2 ± 0.2 at 25°C	

## • PROCEDURE

Suspend 40.2 G of powder in 950 mL 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. Pour into petri dishes.

## • INTERPRETATION

Azide Violet Blood Agar is a medium used for the isolation and cultivation of Streptococci. Tryptose provides nitrogen, vitamins and nutrients. Sodium chloride maintains the osmotic balance. Sodium azide is inhibitory to Gram-negative microorganisms. Crystal violet is the selective agent that inhibits the growth of Gram-positive organisms. Agar is the solidifying agent.

## • TECHNIC

Inoculate the specimen using a sterile loop to the medium. 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: beige

### Prepared medium

Appearance: opaque

Color: amber / cherry red

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

Microorganism	ATCC	Growth	Hemolysis
<i>Streptococcus pyogenes</i>	19615	good	beta
<i>Streptococcus pneumoniae</i>	6305	good	alpha
<i>Enterococcus faecalis</i>	29212	good	alpha / gamma
<i>Escherichia coli</i>	25922	inhibited	-
<i>Staphylococcus aureus</i>	25923	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. Mossel, D.A.A, Diepen, H.M.S., De Bruin, A.S. (1967). J. Appl. Bact. 20:265-272.
2. Anthony, B.F., and D.M. Okada. (1977). Sec. III: 154-170. In Manual of Clinical Microbiology, 4th ed. Lennette E.H., A. Balows, W.J. Hausler, H.J. Shadomy.

**• PACKAGE**

Cat. No : MB-A1155 Azide Violet Blood Agar	500 G
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