

Blood Agar Base No.2



Medium used for the cultivation and identification of fastidious microorganisms.

• CONTENTS (Liter)

Proteose Peptone	15.0 g
Liver Extract	2.5 g
Yeast Extract	5.0 g
Sodium Chloride	5.0 g
Agar	15.0 g
Final pH = 7.4 ± 0.2 at 25°C	

• PROCEDURE

Suspend 42.5 G of powder in 950 mL or 930 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 - 7% of Sheep Blood Defibrinated (MB-S1876) or Horse Blood Defibrinated (MB-H1883). Mix well. Pour into petri dishes.

• INTERPRETATION

Blood Agar Base No.2 is a medium used for the cultivation and identification of fastidious microorganisms. It can also be used as general-purpose media without the addition of blood. Proteose peptone provides a source of essential nutrients. Liver extract and yeast extract provide growth factors, vitamins and minerals to the medium. Sodium chloride maintains the osmotic balance. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 36 ± 1°C for 18 - 48 hours under appropriate condition. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige

Prepared medium

Appearance: opaque

Color: light amber / cherry red

Incubation conditions: 36 ± 1°C / 18 - 48 hours under appropriate condition

Microorganism	ATCC	Inoculum CFU	Growth	Hemolysis
<i>Neisseria meningitidis</i>	13100	50-100	good	-
<i>Staphylococcus aureus</i>	25923	50-100	good	beta
<i>Streptococcus pneumoniae</i>	6305	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. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Brown, J.H.. 1919. The use of blood agar for the study of streptococci, NY Monograph No. 9. In Rockefeller Institute for Medical Research.
2. Ruoff,. K.L. 1995. Streptococcus, p. 299-305. Manual of clinical microbiology, 6th ed.
3. NCCLS document M22-A2, 1996. Approved Standard.
4. ISO 10560: 1993. Milk and milk products - Detection of *Listeria monocytogenes*.

• PACKAGE

Cat. No : MB-B1188 Blood Agar Base No.2	500 G
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