

Blood Agar Base



Medium used for the isolation and cultivation of fastidious microorganisms.

*Equally use with QIA (MB-B1005Q).

• CONTENTS (Liter)

Tryptone	15.0 g
Soytone	5.0 g
Sodium Chloride	5.0 g
Agar	15.0 g
Final pH = 7.3 ± 0.2 at 25°C	

• PROCEDURE

Suspend 40.0 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 - 7% of Sheep Blood Defibrinated (MB-S1876) or Horse Blood Defibrinated (MB-H1883). Mix well. Pour into petri dishes.

• INTERPRETATION

Blood Agar Base is a highly nutritious medium used for the isolation and cultivation of fastidious microorganisms such as streptococci, pneumococci, meningococci. It can also be used as general-purpose media without the addition of blood. Tryptone and soytone provide a source of essential nutrients. Sodium chloride maintains osmotic balance. Agar is the solidifying agent. Sheep blood defibrinated and horse blood defibrinated provides nutrients for the growth of bacteria.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. 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: light amber

Prepared medium

Appearance: clear

Color: cherry red

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

Microorganism	ATCC	Inoculum CFU	Growth	Hemolysis
<i>Staphylococcus aureus</i>	25923	50-100	good	beta
<i>Staphylococcus epidermidis</i>	12228	50-100	good	-
<i>Neisseria meningitidis</i>	13100	50-100	good	-
<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 or until signs of deterioration or contamination are evident. 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. Refer to the QIA.

• PACKAGE

Cat. No : MB-B1005 Blood Agar Base	500 G
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