

CDC Anaerobe Blood Agar



Medium used for the isolation and cultivation of anaerobic organisms including fastidious bacteria.

*Equally use with Blood Agar (MB-B0618).

• CONTENTS (Liter)

Casein Peptone	15.0 g
Sodium Chloride	5.0 g
Soy Peptone	5.0 g
Yeast Extract	5.0 g
L-Cystine	0.4 g
Agar	20.0 g
Final pH = 7.0 ± 0.2 at 25°C	

• PROCEDURE

Suspend 50.4 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 Sheep Blood Defibrinated (MB-S1876) and 2 vials of Vitamin K1-Hemin Solution No.2 (MB-V3005). If necessary, add the appropriate antimicrobial agents to make the medium selective. Mix well. Pour into petri dishes.

Vitamin K1-Hemin Solution No.2**

1 vial contents (each vial is sufficient for 500 mL of medium)

Vitamin K1	0.005 g
Hemin	0.0025 g

**Equally use with CDC Anaerobe Blood Agar supplement (MB-C0823) and Blood Agar supplement (MB-B0710).

• INTERPRETATION

CDC Anaerobe Blood Agar is a medium used for the isolation and cultivation of anaerobic organisms including fastidious bacteria. Casein Peptone, soy peptone and yeast extract provide amino acids and other nitrogenous compounds. Sodium chloride maintains the osmotic balance. L-Cystine provides growth factors in the medium. Agar is the solidifying agent. Vitamin K1 and hemin provide the essential growth nutrients to anaerobic bacteria.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 35 ± 2°C for 48 - 72 hours under anaerobic condition. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige

Prepared medium

Appearance: slightly opalescent

Color: amber / red

Incubation conditions: $35 \pm 2^{\circ}\text{C}$ / 48 - 72 hours under anaerobic condition

Microorganism	ATCC	Growth
<i>Bacteroides fragilis</i>	25285	good
<i>Clostridium perfringens</i>	13124	good
<i>Prevotella intermedia</i>	25611	good
<i>Prevotella melaninogenica</i>	25845	good

• 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. Dowell, V.R., Jr., G.L. Lombard, F.S. Thompson, and A.Y. Armfield. 1977. Media for isolation, characterization, and identification of obligately anaerobic bacteria. CDC laboratory manual. Center for Disease Control, Atlanta.
2. Rodloff, A.C., P.C. Appelbaum, and R.J. Zabransky. 1991. Cumitech 5A, Practical anaerobic bacteriology. Coordinating ed., A.C. Rodloff. American Society for Microbiology, Washington, D.C.
3. Isenberg, H.D. (ed.). 1992. Clinical microbiology procedures handbook, vol. 1. American Society for Microbiology, Washington, D.C.
4. Finegold, S. M., Miller, A. B. and D. J. Posnick. 1965. Further studies on selective media for Bacteroides and other anaerobes. Ernahrungsforschung. 70:517-528.

• PACKAGE

Cat. No : MB-C0822 CDC Anaerobe Blood Agar	500 G
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