

Brucella Anaerobic Agar



Medium used for the cultivation and enumeration of strict anaerobes from clinical specimens.

• CONTENTS (Liter)

Pancreatic Digest of Casein	10.0 g
Peptic Digest of Animal Tissue	10.0 g
Yeast Extract	2.0 g
Dextrose	1.0 g
Sodium Chloride	5.0 g
Sodium Bisulfite	0.1 g
Agar	15.0 g
Final pH = 7.2 ± 0.2 at 25°C	

• PROCEDURE

Suspend 43.1 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). 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 Brucella Agar supplement (Hemin and Vitamin K1) (MB-B3005).

• INTERPRETATION

Brucella Anaerobic Agar is a medium used for the cultivation and enumeration of strict anaerobes from clinical specimens. Pancreatic digest of casein, peptic digest of animal tissue and yeast extract provide nitrogen, carbon, vitamins and minerals. Dextrose serves as an energy source. Sodium chloride maintains the osmotic balance. Sodium bisulfite is a reducing agent. Agar is the solidifying agent. Vitamin K1 and hemin provide the essential nutrients to anaerobic bacteria.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 36 ± 1°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: opaque

Color: tan to yellow / cherry red

Incubation conditions: 36 ± 1°C / 48 - 72 hours under anaerobic condition

Microorganism	ATCC	Growth
<i>Bacteroides fragilis</i>	25285	good
<i>Clostridium perfringens</i>	13124	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. MacFaddin. 1985. Media for isolation-cultivation-identification-maintenance of medical bacteria, vol. 1. Williams & Wilkins, Baltimore, Md.
2. Gibbons, R.J. and J.B. MacDonald. 1960. Hemin and vitamin K compounds as required factors for the cultivation of certain strains of *Bacteroides melaninogenicus*. J. Bacteriol. 80:164-170.
3. Finegold, S.M., V.L. Sutter, H.R. Attebery, and J.E. Rosenblatt. 1974. Isolation of anaerobic bacteria, p. 368. In E.H. Lennette, E.H. Spaulding, and J.P. Truant (ed.), Manual of clinical microbiology, 2nd ed. American Society for Microbiology, Washington, D.C.

• PACKAGE

Cat. No : MB-B1573 Brucella Anaerobic Agar	500 G
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