

Brucella Broth



Medium used for the cultivation and enumeration of Brucella species and other fastidious microorganisms.

*Equally use with MFDS (MB-B2134K).

• CONTENTS (Liter)

Pancreatic Digest of Casein	10.0 g
Peptic Digest of Animal Tissue	10.0 g
Dextrose	1.0 g
Yeast Extract	2.0 g
Sodium Chloride	5.0 g
Sodium Bisulfite	0.1 g
Final pH = 7.0 ± 0.2 at 25°C	

• PROCEDURE

Suspend 28.1 G of powder in 950 mL or 900 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 to 10% sterile Bovine Serum (MB-B1887, required heat inactivation at 56°C for 30 minutes). If necessary, add 5 to 10% sterile Sheep Blood Defibrinated (MB-S1876) or Horse Blood Defibrinated (MB-H1883) instead of Bovine Serum (MB-B1887). Pour into tubes.

• INTERPRETATION

Brucella Broth is a medium used for the cultivation and enumeration of Brucella species and other fastidious microorganisms. Pancreatic digest of casein and peptic digest of animal tissue provide nitrogen, carbon, vitamins and minerals. Dextrose is the carbohydrate. Yeast extract provides vitamins. Sodium chloride maintains the osmotic balance. Sodium bisulfite enhances growth.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 36 ± 1°C for up to 7 days under microaerobic condition. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: yellowish beige

Prepared medium

Appearance: opaque

Color: light amber

Incubation conditions: 36 ± 1°C / up to 7 days under microaerobic condition

Microorganisms	ATCC	Growth
<i>Brucella abortus</i>	NCCP 10040	good
<i>Streptococcus pyogenes</i>	19615	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. Mac Faddin. 1985. Media for isolation-cultivation-identification-maintenance of medical bacteria, vol. 1. Williams & Wilkins, Baltimore, Md.
2. Moyer, Holcomb and Hausler. 1991. In Balows, Hausler, Herrmann, Isenberg, and Shadomy (ed.), Manual of clinical microbiology, 5th ed. American Society for Microbiology, Washington, D.C.
3. Chapin and Murray. 1999. In Murray, Baron, Pfaller, Tenover and Tenover (ed.). Manual of clinical microbiology, 7th ed. American Society for Microbiology, Washington, D.C.

• PACKAGE

Cat. No : MB-B2134 Brucella Broth	500 G
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