

Serum Dextrose Agar



Medium used for the isolation and cultivation of *Brucella* spp.

*Equally use with MFDS (MB-S0806K).

• CONTENTS (Liter)

Peptone	10.0 g
Meat Extract	5.0 g
Dextrose	10.0 g
Sodium Chloride	5.0 g
Agar	20.0 g
Final pH = 7.4 ± 0.2 at 25°C	

• PROCEDURE

Suspend 50.0 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 50 mL of Bovine Serum (MB-B1887) and 2 vials of Serum Dextrose Agar supplement (MB-S0809). Mix well. Pour into petri dishes.

Serum Dextrose Agar supplement

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

Bacitracin	12,500 IU
Polymyxin B	2,500 IU
Vancomycin	0.01 g
Nalidixic Acid	0.0025 g
Cycloheximide	0.05 g

**Equally use with MFDS (MB-S0809K).

• INTERPRETATION

Serum Dextrose Agar is a medium used for the isolation and cultivation of *Brucella* spp. Peptone, meat extract and dextrose provide nitrogen, carbon, vitamins. Sodium chloride supplies essential electrolytes for transport and maintains the osmotic balance. Agar is the solidifying agent. Serum Dextrose Agar supplement is made of selective agents to inhibit microorganisms except *brucella* spp.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 37°C for 3 - 5 days under microaerobic condition. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige

Prepared medium

Appearance: clear

Color: light amber

Incubation conditions: 37°C / 3 - 5 days under microaerobic condition

Microorganism	ATCC	Inoculum CFU	Growth
<i>Brucella abortus</i>	10040 (NCCP)	50-100	good
<i>Escherichia coli</i>	25922	≥10 ³	inhibited
<i>Staphylococcus aureus</i>	25923	≥10 ³	inhibited

• 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. Bordet, J., and D. Gengou. 1906. Le microbe de la coqueluche. Ann. Inst. Pasteur 20: 731.
2. Isenberg, H.D. (ed.). 1992. Clinical microbiology procedures handbook, vol. 1. American Society of Microbiology, Washington, D.C.
3. Refer to the MFDS.

• PACKAGE

Cat. No : MB-S0806 Serum Dextrose Agar	500 G
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