Serum Dextrose Broth

Medium used for the isolation and cultivation of Brucella spp.
*Eqaully use with MFDS (MB-S0866K).

• CONTENTS (Liter)

Dextrose	50.0 g
Tryptose	10.0 g
Beef Extract	3.0 g
Sodium Chloride	5.0 g

Final pH = 7.4 ± 0.2 at 25°C

• PROCEDURE

Suspend 68.0 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 sterile Horse Serum (MB-H1888, required heat inactivation at 56°C for 30 miniutes). Mix well. Pour into tubes.

• INTERPRETATION

Serum Dextrose Broth is a medium used for the isolation and cultivation of Brucella spp. Dextrose, tryptose and beef extract provide nitrogen, carbon, vitamins. Sodium chloride supplies essential electrolytes for transport and maintains the osmotic balance. Horse serum provides nutrients for the growth of Brucella spp.

• TECHNIC

Inoculate the specimen using a sterile needle 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
Brucella abortus	10040 (NCCP)	50-100	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. 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-S0866 Serum Dextrose Broth	500 G