

Potato Infusion Agar

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

• CONTENTS (Liter)

Potatoes, Infusion	4.0 g
Beef Extract	5.0 g
Proteose Peptone	10.0 g
Dextrose	10.0 g
Sodium Chloride	5.0 g
Agar	15.0 g
Final pH = 6.8 ± 0.2 at 25°C	

• PROCEDURE

Suspend 49.0 G of powder in 980 mL of distilled or deionized water. Add 20 mL of Glycerol supplement (MB-G1821). Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C. Mix well. Pour into petri dishes.

• INTERPRETATION

Potato infusion agar is a medium used for the cultivation and enumeration of *Brucella* spp. Potato, infusion, beef extract and proteose peptone provide the carbon and nitrogen sources. Dextrose is the carbohydrate. Sodium chloride maintains the osmotic balance. Agar is the solidifying agent.

• TECHNIC

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

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

Prepared medium

Appearance: clear

Color: light amber

Incubation conditions: 35 ± 2°C / 48 - 72 hours under microaerobic condition

Microorganism	ATCC	Inoculum CFU	Growth
<i>Brucella abortus</i>	NCCP 10040	50-100	good
<i>Streptococcus pneumoniae</i>	6305	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. Abs. Bact. (1919). 3 : 6.
2. Moyer, N.P., and L.A. Holcomb (1995) Brucella p 549-555.

• PACKAGE

Cat. No : MB-P1411 Potato Infusion Agar	500 G
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