



Potato Infusion Broth

M1833

Potato Infusion Broth is recommended for isolation of *Brucella* species.

Composition**

Ingredients	Gms / Litre
Potato infusion from	200.000
Peptic digest of animal tissue	10.000
Beef extract	5.000
Dextrose	10.000
Sodium chloride	5.000
Final pH (at 25°C)	6.8±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 34.0 grams in 1000 ml of distilled water containing 20 ml of glycerol. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Dispense as desired.

Principle And Interpretation

Brucella is a strictly aerobic, gram-negative coccobacilli which causes Brucellosis. This organism is sometimes carried by animals and only causes incidental infections in humans. Infection usually occurs due to consumption of contaminated milk, meat or direct contact. Potato Infusion Broth is used for the isolation of *Brucella* species (1). It is also used for the cultivation of *Brucella* species in large scale for antigen and vaccine preparation. This medium enables *Brucella* species to form typical colonies when isolated from infected materials.

Potato Infusion Broth contains infusion of potato, beef extract and peptic digest of animal tissue which provide necessary nutrients required for the growth of *Brucella*. Dextrose serves as source of energy and sodium chloride maintains the osmotic equilibrium of the medium.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Yellow coloured clear to slightly opalescent gel forms in Petri plates.

Reaction

Reaction of 3.4% w/v aqueous solution (containing 2% v/v Glycerol) at 25°C. pH : 6.8±0.2

pH

6.60-7.00

Cultural Response

M1833: Cultural characteristics observed after an incubation at 35 - 37°C for 24 - 72 hours.

Organism	Inoculum (CFU)	Growth
Cultural Response		
<i>Bordetella bronchiseptica</i> ATCC 4617	50-100	luxuriant
<i>Brucella melitensis</i> ATCC 4309	50-100	luxuriant
<i>Brucella suis</i> ATCC 6597	50-100	luxuriant
<i>Streptococcus pneumoniae</i> ATCC 6303	50-100	luxuriant

Storage and Shelf Life

Please refer disclaimer Overleaf.

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

1. Atlas R. M., 1993, Handbook of Microbiological Media, CRC Press, Inc., Boca Raton.

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