

Technical Information

Potato Infusion Agar

Product Code : DM 1174

Application: Potato Infusion Agar is recommended for the 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
Agar	15.000
Final pH (at 25°C)	6.8±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Brucella is a strictly aerobic, gram-negative coccobacilli which causes Brucellosis in human being This organism is carried by animals and causes incidental infections in humans. Infection in men usually occurs due to consumption of contaminated milk, meat or direct contact with infected animal. Potato Infusion Agar 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 Agar medium 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.

Methodology

Suspend 49 grams of powder media in 1000 ml distilled water containing 20 ml glycerol. Shake well & heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.

Quality Control

Physical Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Reaction of 4.9% w/v aqueous solution (containing 2% v/v Glycerol) at 25°C. pH : 6.8±0.2

Reaction

Reaction of 4.9% w/v aqueous solution (containing 2% v/v Glycerol) at 25°C. pH : 6.8±0.2

pH Range:- 6.60-7.00

Cultural Response/Characteristics

DM 1174: Cultural characteristics observed after an incubation at 35 - 37°C for 24 - 72 hours.

Organism

Bordetella bronchiseptica ATCC 4617

Brucella melitensis ATCC 4309

Brucella suis ATCC 6597

Streptococcus pneumoniae ATCC 6303

Growth

luxuriant

luxuriant

luxuriant

luxuriant



Dehydrated Culture Media
Bases / Media Supplements

Storage and Shelf Life-

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

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

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents. Do not use the products if it fails to meet specifications for identity and performance parameters.

