



Brain Heart Infusion Agar with 3.0% Agar

M1069

Brain Heart Infusion Agar with 3% Agar is used for cultivation of fastidious microorganisms using hard (3%) agar gel.

Composition**

Ingredients	Gms / Litre
Calf brain, infusion from	200.000
Beef heart, infusion from	250.000
Proteose peptone	10.000
Sodium chloride	5.000
Dextrose	2.000
Disodium phosphate	2.500
Agar	30.000
Final pH (at 25°C)	7.4±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 67 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

This is highly nutritious medium that can support luxuriant growth of wide variety of microorganisms. It is a general purpose culture medium used for primary isolation of aerobic bacteria from clinical specimens (1). Brain Heart Infusion Agar with 3% Agar is used for cultivation of fastidious microorganisms using hard (3%) agar gel.

Proteose peptone and infusions (Calf brain Beef heart) serve as sources of carbon, nitrogen, essential growth factors, amino acids and vitamins. Dextrose serves as a source of energy. Disodium phosphate helps in maintaining the buffering action of the medium whereas sodium chloride maintains the osmotic equilibrium of the medium.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 3.0% Agar gel

Colour and Clarity of prepared medium

Light amber coloured clear to slightly opalescent gel forms in Petri plates.

Reaction

Reaction of 6.7% w/v aqueous solution at 25°C. pH : 7.4±0.2

pH

7.20-7.60

Cultural Response

M1069: Cultural characteristics observed after an incubation at 35- 37°C for 18-24 hours.

Organism	Inoculum	Growth
Cultural Response	(CFU)	
<i>Candida albicans</i> ATCC 10231	50-100	luxuriant
<i>Escherichia coli</i> ATCC 25922	50-100	luxuriant
<i>Shigella flexneri</i> ATCC 12022	50-100	luxuriant

<i>Staphylococcus aureus</i> ATCC 25923	50-100	luxuriant
<i>Streptococcus pneumoniae</i> ATCC 6303	50-100	luxuriant

Storage and Shelf Life

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

Reference

1. Conant N.F 1950, Diagnostic Procedures and Reagents 3rd ed. APHA Inc. New York.

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