OXALIS Diagnostics Pvt. Ltd.

Technical Data

Brain Heart Infusion Agar. 100 g / 500 g

Used for cultivation of varieties of micro-organisms includingbacteria, yeast and moulds.

Product Presentation:

Cat No.	Product description	Pack Size
11020030100	Brain Heart Infusion Agar	100 Gram
11020030500	Brain Heart Infusion Agar	500 Gram

Principle

Meat infusions were utilized as the growth-supporting components in a large number of culture media. Although they were cumbersome to prepare, lacked consistency from batch to batch and were undefined as to their nutritive content, they enabled the cultivation of microorganisms in both solid and liquid media. Peptones currently are the major nutritional additives to culture media formulations, but infusions are still utilized in specific media. Brain Heart Infusion Agar with 10% Sheep Blood can be used to isolate systemic fungi that may grow poorly on the non-enriched medium. BHI agar is recommended by APHA for the examination of foods and is included in the Bacteriological Analytical Manual Testing of Cosmetics.

BHI Agar derives its nutrients from the brain heart infusion and peptones that are sources of organic nitrogen,carbon, sulfur, vitamins and trace substances. Dextrose is a carbohydrate source utilized by fermentative action by microorganisms. Addition of defibrinated sheep blood provides essential growth factors for more fastidious organisms. Di sodium phosphate buffers the medium. Addition of antimicrobials like 50 mg per litre of chloramphenicol or 40 mg per litre of streptomycin or mixture of 50 mg of gentamicin and 50 mg chloramphenicol along with 5-10% defibrinated blood is often recommended for inhibition of bacteria and isolation of pathogenic systemic fungi.

Composition

Ingredients	Grams / Litre
Beef Heart, Infusion from	250.00
Calf Brain, Infusion from	200.00
Proteose Peptone	10.00
Sodium Chloride	5.00
Dextrose	2.00
Disodium Phosphate	2.50
Agar	15.0

Final pH (at 25°C) 7.4± 0.2

*Formula adjusted, standardized to suit performance parameters

Type of specimen

Pharmaceutical samples,Clinical samples-Blood & non-clinical samples.

FACTORY & OFFICE
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Specimen Collection and Handling

Ensure that all samples are properly labeled. Follow appropriate techniques for handling samples as per established guidelines. Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure. The samples must be stored and tested within the permissible time duration. After use, contaminated materials must be sterilized by autoclaving before discarding.

Directions

- ✓ Suspend 52.00 g of powder in 1000 mL distilled water.
- ✓ Mix thoroughly.
- ✓ Boil to dissolve the medium completely. Avoid Overheating.
- ✓ Sterilize by autoclaving 121°C for 15 minutes or as per validated cycle.
- ✓ Cool to 60°C -70°C and pour into sterile petridishes.

Storage and Stability

- ✓ Store Dehydrated culture media in cool, dry place at 10°C-30°C away from direct light.
- ✓ Store prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

Quality Control

Dehydrated Appearance: Beige coloured, homogenous, free flowing powder
Prepared Appearance: Light amber coloured, clear to slightly opalescent gel forms in petridishes.
Growth Promotion Test: Growth promotion is carried out in accordance with USP/EP/JP/IP and growth is observed after an incubation at 30°C-35°C for 18-24 hours for bacteria and at 20°C-25°C for 2 days for fungi.
Growth Promoting Properties: The test results observed are within the specified temperature and shortest period of time specified in the test, inoculating ≤ 100 cfu of appropriate microorganism.

Cultural Response :

Organism	Type Culture	Growth	Incubation Temperature	Incubation Period
Candida albicans	*ATCC* 10231	Good	30°C -35°C	18 Hours
Escherichia coli	ATCC 8739	Good	30°C -35°C	18 Hours
Shigella flexneri	ATCC 12022	Good	30°C -35°C	18 Hours
Staphylococcus aureus	ATCC 25923	Good	30°C -35°C	18 Hours
Streptococcus pneumoniae	ATCC 6303	Good	30°C -35°C	18 Hours
Escherichia coli	ATCC 25922	Good	30°C -35°C	18 Hours
Staphylococcus aureus	ATCC 6538	Good	30°C -35°C	18 Hours

Interpretation of Results

- ✓ After proper incubation, the plates should show isolated colonies in streaked areas and confluent growth in areas of heavy inoculation.
- ✓ In cultures for fungi, examine plates for fungal colonies exhibiting typical colour and morphology.
- ✓ All cultures must be examined weekly for fungal growth and should be held for 4-6 weeks before being reported as negative.

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Warranty

- ✓ This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Disposal

Disposal of infectious material and material that comes in to contact with clinical sample must be decontaminated and dispose of by autoclaving or incineration or established laboratory procedures. User must be ensure safe disposal of used or unusable preparation of the products.

Reference

1. US Food and Drug Adm; 1998, Bacteriological Analytical Manual, 8th Ed; Rev. AOAC, International, Gaithersburg, Md.
2. Downes and Ito (ed.) 2001, Compedium Of Methods for The Microbiological Examination of Foods, 4th edition, APHA Washington DC.

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