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Part Number: 8806411JAA		Category and Description Package Insert, Sabouraud Brain Heart Infusion Agar	Sheet: 1 of 2 <hr/> Scale: N/A	A

BD BBL™ Prepared Media for Cultivation of Fungi

8806411JAA
2003/10

Sabouraud Brain Heart Infusion Agar, Sabouraud Brain Heart Infusion Agar with 10% Sheep Blood

INTENDED USE

Sabouraud Brain Heart Infusion Agar is used in qualitative procedures for the isolation and cultivation of pathogenic fungi from clinical and nonclinical specimens.

SUMMARY AND EXPLANATION

Sabouraud Brain Heart Infusion Agar is based on the formulation of Gorman.¹ The combination of Brain Heart Infusion Agar and Sabouraud Dextrose Agar in this medium improves the recovery over that on either medium individually.¹

PRINCIPLES OF THE PROCEDURE

Sabouraud Brain Heart Infusion Agar contains two peptones and brain heart infusion solids as sources of amino acids, nitrogen, sulfur, carbon and trace ingredients. Dextrose provides an energy source. Disodium phosphate maintains the pH of the medium. Sodium chloride provides essential electrolytes. The inclusion of sheep blood enhances recovery of fastidious dimorphic fungi.²

REAGENTS

Sabouraud Brain Heart Infusion Agar

Approximate Formula* Per Liter Purified Water

Brain Heart, Infusion from (solids)	4.0 g
Peptic Digest of Animal Tissue	5.0 g
Pancreatic Digest of Casein	10.5 g
Dextrose	21.0 g
Sodium Chloride	2.5 g
Disodium Phosphate	1.25 g
Agar	15.0 g

*Adjusted and/or supplemented as required to meet performance criteria.

Sabouraud Brain Heart Infusion Agar with 10% Sheep Blood contains 10% sheep blood in addition to the ingredients listed above.

Warnings and Precautions:

For *in vitro* Diagnostic Use.

Tubes and bottles with tight caps should be opened carefully to avoid injury due to breakage of glass.

Storage Instructions: On receipt, store tubes and bottles in the dark at 2 to 8°C. Avoid freezing and overheating. Do not open until ready to use. Minimize exposure to light. Tubed and bottled media stored as labelled until just prior to use may be inoculated up to the expiration date and incubated for up to 6 weeks. Allow the medium to warm to room temperature before inoculation.

Product Deterioration: Do not use medium if it shows evidence of microbial contamination, discoloration, drying or other signs of deterioration.

SPECIMEN COLLECTION AND HANDLING

Refer to appropriate texts for details of specimen collection and handling procedures.^{2, 4}

Pathogenic microorganisms, including hepatitis viruses and Human Immunodeficiency Virus, may be present in clinical specimens. "Standard Precautions"⁵⁻⁸ and institutional guidelines should be followed in handling all items contaminated with blood and other body fluids. Prior to discarding, sterilize specimen containers and other contaminated materials by autoclaving.

PROCEDURE

Material Provided: Sabouraud Brain Heart Infusion Agar or Sabouraud Brain Heart Infusion Agar with 10% Sheep Blood .

Materials Required But Not Provided: Ancillary culture media, reagents, quality control organisms and laboratory equipment as required for this procedure.

Test Procedure:

Observe aseptic techniques. Inoculate the medium as soon as possible after the specimen arrives at the laboratory. Streak the specimen over the surface of the medium with a sterile inoculating loop or needle. Consult appropriate texts for information about the processing and inoculation of specimens such as tissues, skin scrapings, hair, nail clippings, etc.^{3,4,9-11}

For isolation of fungi causing cutaneous mycoses, a general-purpose, nonselective medium should be inoculated along with a selective medium. Incubate the media at 25 to 30°C. If cultures are negative after 7 days of incubation, continue incubation for another 4 to 6 weeks before reporting them as negative.

For isolation of fungi causing systemic mycoses, two sets of media should be inoculated, with one set incubated at 25 to 30°C and the other set at 37°C.

User Quality Control:

1. Examine the medium for signs of deterioration as described under "Product Deterioration."
2. Check performance by inoculating a representative sample of tubes or bottles with pure cultures of stable control organisms that produce known, desired reactions. The following test strains are recommended:

TEST STRAIN

Blastomyces dermatitidis
ATCC™ 56218

Candida albicans
ATCC 60193

EXPECTED RESULTS

Growth

Growth

Quality control requirements must be performed in accordance with applicable local, state and/or federal regulations or accreditation requirements and your laboratory's standard Quality Control procedures. It is recommended that the user refer to pertinent NCCLS guidance and CLIA regulations for appropriate Quality Control practices.

RESULTS

Examine the medium for growth. All cultures should be held for at least 4 to 6 weeks before reporting them as negative.

LIMITATIONS OF THE PROCEDURE

This prepared medium is intended for primary isolation. Some diagnostic tests may be performed with the primary medium. However, a pure culture is recommended for biochemical tests and other identification procedures. Consult appropriate texts for further information.^{3,4,9-12}


AVAILABILITY

Cat. No.	Description
297691	BBL™ Sabouraud Brain Heart Infusion Agar Slants, Ctn. of 100 size C tubes
297397	BBL™ Sabouraud Brain Heart Infusion Agar Bottles, Pkg. of 10 1 oz. bottles
297685	BBL™ Sabouraud Brain Heart Infusion Agar Bottles, Pkg. of 10 plastic flasks
297410	BBL™ Sabouraud Brain Heart Infusion Agar with 10% Sheep Blood, Pkg. of 10 plastic flasks

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 Becton, Dickinson and Company
7 Loveton Circle
Sparks, MD 21152 USA
800-638-8663