savyonDIAGNOSTICS

BRAIN-HEART INFUSION AGAR WITH CHLORAMPHENICOL
(Prepared slant tubes - Pkg. of 25)
Catalogue No.: BS-364

INTENDED USE:
Brain Heart Infusion (BHI) Agar is a general-purpose nutrient medium recommended for the cultivation and isolation of a variety of microorganisms, including bacteria, yeasts, and molds. The addition of Chloramphenicol inhibits gram-negative bacteria and produces a selective medium used for the isolation of pathogenic fungi from specimens heavily contaminated with bacteria and saprophytic fungi.

SUMMARY AND EXPLANATION:
Rosenow prepared a rich medium for culturing streptococci by combining dextrose broth and brain tissue. Hayden modified the original formula while working with dental pathogens. The current formula is a modification of Rosenow and Hayden, using dehydrated infusions of porcine brain and heart tissue.
The brain heart infusion, peptone and dextrose components of the medium provide the nutrients to BHI Agar. Organic nitrogen, carbon, sulfur, vitamins, and trace substances are provided by the peptones and infusion. Dextrose provides a carbohydrate source for fermentative microorganisms. Disodium phosphate is added to the medium in order to maintain an optimal pH. Chloramphenicol is incorporated to improve the recovery of pathogenic fungi from specimens heavily contaminated with bacteria and saprophytic fungi. A wide range of gram-positive and gram-negative bacteria are inhibited by Chloramphenicol, a broad-spectrum antimicrobic. BHI with Chloramphenicol is used in qualitative procedures for the isolation and cultivation of pathogenic and nonpathogenic fungi from clinical and nonclinical specimens.

Formula / Liter:

Brain Heart, Infusion	8.0 g
Peptic Digest of Animal Tissue	5.0 g
Pancreatic Digest of Casein	6.0 g
Dextrose	2.0 g
Sodium Chloride	5.0 g
Disodium Phosphate	2.5 g
Agar	13.5 g
Chloramphenicol	0.05 g

Quality Control Specifications
Prepared Appearance: BHI Agar with Chloramphenicol should appear slightly opalescent, and light amber in color.

Expected Cultural Response: Cultural response at 30°C for 18 - 24 hours incubation.

Microorganism	ATCC®	Response
Candida albicans	10231	Fair to heavy growth
Trichophyton mentagrophytes	9533	Fair to heavy growth
Staphylococcus aureus	25923	Inhibited
Escherichia coli	25922	Inhibited

Storage
Store sealed tube containing the prepared medium at +2 + 8°C.

Expiration
The shelf life of the prepared products is limited to 4 months when stored at +2+8oC.

Savyon Diagnostics Ltd.
3 Habosem St.
7761003 Ashdod, Israel
Tel.: 972.8.8562920
Fax: 972.8.8523176
info@savyondiagnostics.com