

PRODUCT INFORMATION

Product Type: PETRI DISHES 90mm

Cat No. PD007 - BRAIN HEART INFUSION (BHI) AGAR

Intended Use:

General use.

Principles and uses:

Brain Heart Infusion (BHI) Agar is a type of growth medium used in microbiology to support the cultivation of a wide range of microorganisms, including fastidious bacteria, fungi, and yeasts. It is a nutrient-rich and non-selective medium that provides essential nutrients for microbial growth.

Brain Heart Infusion Agar is used for the cultivation of a wide variety of fastidious microorganisms such as streptococci, meningococci and pneumococci.

BHIA is recommended in Standard Methods for water testing and in antimicrobial susceptibility tests. The nutritionally rich base of Beef heart and Calf brain infusions and Peptone mixture provide nitrogen, vitamins, minerals and amino acids that support the growth of a variety of microorganisms.

Disodium phosphate acts as a buffer. Dextrose is the fermentable carbohydrate providing carbon and energy. Sodium chloride maintains the osmotic balance. Bacteriological agar is the solidifying agent.

Instructions for use:

For clinical diagnosis, for all types of clinical samples: Inoculate the surface by streaking in parallel with the handle or hyssop.

Incubation conditions: Aerobic, 24-48 hours 35±2 °C.

Formulation

Dextrose - 2 g/L,
Disodium phosphate - 2,5 g/L,
Gelatin peptone - 10 g/L,
Sodium chloride - 5 g/L,
Heart infusion - 10 g/L,
Brain infusion - 7,5 g/L

Storage: 2-8 °C

pH at RT: 7.4±0.2

Appearance: light to medium amber

Package contents: 10 plates in a package

Shelf life: 3 months

Exp. Date: Printed on label and on the item.
Required materials not supplied: Laboratory equipment as required.

Warning and Precautions - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Petri dishes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Petri Dishes may be used / inoculated up to the expiration date and incubated for the recommended incubation times. After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be sterilized or incinerated by validated procedures. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.

If excessive moisture is observed, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation. Storage Instructions: On receipt, store plates in the dark at 2–8°C. Avoid freezing and overheating. Do not open until ready to use

Performance Testing Results:

GPT: inoculum 500-1000 cfu
(*N. meningitidis*- streaking from fresh colony culture)

Test	ATCC NO	Incubation Temp.(°C)	Incubation Cond.	Reaction 1
<i>Staphylococcus aureus</i>	25923	33-37 °C	Aerobic, 24-48 hours	Growth
<i>Staphylococcus epidermidis</i>	12228	33-37 °C	Aerobic, 24-48 hours	Growth
<i>Streptococcus pyogenes group A</i>	19615	33-37 °C	Aerobic, 24-48 hours	Growth
<i>Streptococcus pneumoniae</i>	49619	33-37 °C	Aerobic, 24-48 hours	Growth
<i>Enterococcus faecalis</i>	19433	33-37 °C	Aerobic, 24-48 hours	Growth
<i>Candida albicans</i>	10231	33-37 °C	Aerobic, 24-48 hours	Growth
<i>Neisseria meningitidis</i>	13090	33-37 °C	Aerobic, 24-48 hours	Growth