

PRODUCT INFORMATION

Product Type: Tubes

Cat No. TT151 - BRAIN HEART INFUSION BROTH + SERUM (100*13)

Intended Use:

BHI (Brain Heart Infusion) Broth + Horse Serum is an enriched liquid medium designed for the cultivation of fastidious microorganisms, including certain bacteria, yeasts, and molds, and is especially useful for supporting the growth of highly demanding or pathogenic organisms.

Principles and uses:

Brain Heart Infusion Broth is highly nutritious and is recommended for the propagation of a variety of fastidious and non-fastidious microorganisms. BHI broth is recommended as a pre-enrichment step for increasing the identification sensitivity.

BHI Broth is a nutrient-rich base containing beef heart and calf brain infusions and peptone to supply amino acid, mineral, vitamins and other nutrients. Sodium chloride maintains the osmotic balance and glucose serves as carbon source.

Horse Serum (5% v/v) is added as a supplement to supply additional growth factors, lipids, and proteins, further enhancing the medium's ability to support very fastidious or pathogenic organisms (such as *Neisseria*, *Haemophilus*, and some fungi).

Uses

Cultivation and enrichment of fastidious bacteria (e.g., *Neisseria*, *Haemophilus*, *Streptococcus*, *Brucella*).

Support of fungal and yeast growth in clinical and research settings.

Blood culture work and allied pathological investigations.

Antibiotic susceptibility testing and recovery of organisms from clinical specimens.

Procedure

1. Surface sampling

- 1.1. Wipe the target surface (work surface, skin, coat) with a swab/sponge.
- 1.2. Transfer the swab/sponge to BHI Broth.

2. Liquid specimens

- 2.1. Inoculate the BHI broth with 1-2 drops

Cultural Response

Cultural characteristics observed after an incubation at 33-37°C for 18-24 hours.

Growth – Turbidity

Composition:

Dextrose 2 g/L

Disodium phosphate 2.5 g/L

Gelatine peptone 10 g/L

Sodium chloride 5 g/L

Heart infusion 10 g/L

Brain infusion 7.5 g/L

Horse Serum Sterile 50 ml/L

Storage: 2°-8°C

Package contents: 20 Tubes

Appearance: Light amber colored, clear to opalescent solution

pH Range: 7.2 - 7.6

Exp. Date: Printed on label and on the item.

Required materials not supplied: Laboratory equipment as required.

Warning and Precautions:

Warning and Precautions - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Tubes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Tubes 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.

Waste Disposal

After interpretation all items should be destroyed by standard incineration methods.

Performance Testing Results:

Streaking from fresh colony culture.

Test	ATCC NO	Incubation Temp. (°C)	Incubation Cond.	Reaction 1
<i>Staphylococcus aureus</i>	25923	33-37 °C	Aerobic, 18-24 hours	Growth
<i>Streptococcus pyogenes group A</i>	19615	33-37 °C	Aerobic, 18-24 hours	Growth
<i>Streptococcus pneumoniae</i>	49619	33-37 °C	Aerobic, 18-24 hours	Growth
<i>Enterococcus faecalis</i>	19433	33-37 °C	Aerobic, 18-24 hours	Growth
<i>Neisseria meningitidis</i>	13090	33-37 °C	Aerobic, 18-24 hours	Growth
<i>Candida albicans</i>	10231	33-37 °C	Aerobic, 18-24 hours	Growth