

# PRODUCT INFORMATION

**Product Type:** Tubes (2.5ml (13\*100) / 5ml (16\*100)/ 30ml for CRAB)

## Cat No. TT244 - BRAIN HEART INFUSION BROTH

### Intended Use:

Brain Heart Infusion Broth is a highly nutritious, general-purpose liquid medium used for the cultivation and maintenance of a wide variety of fastidious and non-fastidious microorganisms, including bacteria, yeasts, and molds. It is especially valued for supporting the growth of demanding or pathogenic organisms in clinical, food, water, and environmental microbiology.

### Principles and uses:

Brain Heart Infusion Broth (BHI) is a liquid medium rich in nutrients, suitable for the cultivation of several fastidious strains of bacteria, such as streptococci, meningococci and pneumococci, fungi and yeasts. BHI Broth is recommended in Standard Methods for water testing and in antimicrobial susceptibility tests.

BHI Broth is recommended for the preparation of the culture of *S. aureus* for use in coagulase tests according to ISO 6888 Horizontal method for the enumeration of coagulase positive *staphylococci*.

**The nutritionally rich base** of beef heart and calf brain infusions and **peptone** mixture provide nitrogen, vitamins, minerals and amino acids essential for growth of a variety of microorganisms. **Dextrose (Glucose)** is the carbon energy source and Sodium chloride maintains the osmotic balance. **Disodium Phosphate:** Acts as a buffering agent to stabilize pH during microbial growth.

**Brain Heart Infusion Broth (BHI) for CRAB** (Carbapenem-Resistant *Acinetobacter baumannii*): BHI Broth is suitable for its growth and propagation in laboratory settings. BHI does not contain selective agents, so it will support the growth of CRAB as well as many other bacteria present in a sample. This makes BHI Broth appropriate for:

**Primary enrichment:** Growing CRAB from clinical or environmental specimens before further identification or susceptibility testing.

**Preparation of inocula:** Cultivating CRAB for use in antimicrobial susceptibility testing or research studies

### Uses:

**Cultivation of Fastidious Organisms:** Supports growth of bacteria such as *Streptococcus*, *Neisseria*, *Haemophilus*, and other demanding pathogens.

**Antimicrobial Susceptibility Testing:** Used for preparing inocula for sensitivity tests.

**Food, Water, and Environmental Testing:** Recommended by standards organizations for microbial examination of various samples.

### 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

**Storage:** 2°-8°C

**Package contents:** 50 Tubes containing 2.5ml / 5ml / 30ml for CRAB

**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:

Inoculum: 10000 cfu.

Test	ATCC NO	Incubation Temp. (°C)	Incubation Cond.	Reaction 1
<b>TT244/30 - BHI Broth for CRAB, 30ml</b>				
<i>Staphylococcus aureus</i>	25923	33-37 °C	Aerobic, 18-24 hours	Growth
<i>Acinetobacter baumannii</i>	BAA-1605	33-37 °C	Aerobic, 18-24 hours	Growth
<b>TT244 - BRAIN HEART INFUSION BROTH 2.5 ml, 5ml</b>				
<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>Staphylococcus aureus</i>	25923	33-37 °C	Aerobic, 18-24 hours	Growth
<i>Enterococcus faecalis</i>	19433	33-37 °C	Aerobic, 18-24 hours	Growth

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