

# PRODUCT INFORMATION

**Product Type:** Test Tubes 2ml

**Cat No. TT170 - BRAIN HEART INFUSION BROTH + GLYCEROL**

## Application

Selective enrichment General use.

## Intended Use:

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.

The combination of Brain Heart Infusion (BHI) broth with glycerol is used in microbiology for the preservation and storage of bacterial cultures. The addition of glycerol serves as a cryoprotectant, helping to prevent damage to the bacterial cells during freezing.

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 is the carbon energy source and Sodium chloride maintains the osmotic balance.

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## Composition

Dextrose - 2 g/L

Disodium phosphate - 2,5g/L

Gelatin peptone - 10g/L

Sodium chloride - 5g/L

Heart infusion - 10g/L

Brain infusion - 7,5g/L

Glycerol – 150ml/L

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**Storage:** -20°C

**pH at RT** – 7.1 - 7.5

**Appearance:** Amber

**Package contents:** 100 Tubes

**Shelf life:** 4 months (in -20°C)

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

**Required materials not supplied:** Laboratory equipment as required.

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### 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:

1. Dispense into the tubes harvest growth of microorganism.
2. Freeze the tubes at -70 Deg.C for 24 hours.
3. Subculture on the plates from each tube and incubate for 24 hours.

TEST	ATCC	Incubation Temp. (°C)	Incubation Cond.	Reaction 1
<i>Enterococcus faecalis</i>	19433	-70 °C	Aerobic, 24 hours	Growth
<i>Staphylococcus aureus</i>	25923	-70 °C	Aerobic, 24 hours	Growth
<i>Streptococcus pyogenes group A</i>	19615	-70 °C	Aerobic, 24 hours	Growth
<i>Streptococcus pneumoniae</i>	49619	-70 °C	Aerobic, 24 hours	Growth
<i>Neisseria meningitidis</i>	13090	-70 °C	Aerobic, 24 hours	Growth
<i>Candida albicans</i>	10231	-70 °C	Aerobic, 24 hours	Growth