



Brain Heart Infusion Broth, BHI B |

AS-1149

Used for the cultivation of fastidious organisms.

In microbiology, Brain Heart Infusion (BHI) Broth is a crucial liquid culture media. This nutrient-rich broth promotes the growth of a wide variety of microorganisms, including fungi, yeasts, and fastidious (*Streptococci*, *Meningococci*) as well as non-fastidious bacteria. Essential building blocks and growth factors can be obtained through infusions of animal heart and brain tissue, while peptones provide extra nitrogen and amino acids. Microbial growth is supported by dextrose, and osmotic equilibrium is preserved by sodium chloride. BHI Broth utilizes in standard operating procedures for water testing and for growing fastidious organisms. Its potent nutritional profile also renders it ideal for determining sensitivity to antibiotics.

Composition (gr/L)

Brain Heart Infusion	17.5
Enzymatic Digest of Gelatine	10
Dextrose	2
Sodium Chloride	5
Disodium Phosphate	2.5
Final pH at 25°C	7.4 ± 0.2

Preparation

Dissolve 37 g of the powder into 1 L distilled water. Autoclave for 15 minutes at 121°C.

Quality Control

Dehydrated Appearance: Light tan, free-flowing, homogeneous.

Prepared Appearance: Light to medium, yellow to tan, clear to slightly hazy.

Reaction of 3.7 % Solution at 25°C: pH 7.4 ± 0.2

Microbial Test Results

Incubate for 18–48 hours, or at 35 ± 2°C.

Organism (ATCC)	Recovery
<i>Pseudomonas aeruginosa</i> (27853)	Good
<i>Candida albicans</i> (60193)	Good
<i>Staphylococcus aureus</i> (25923)	Good

Storage

Keep the container at 15-30 °C and prepared medium at 2-8 °C.