

Brain Heart Infusion Broth (i23023)

Brain-Heart Infusion Broth is used for the cultivation of a wide variety of fastidious organisms.

Industry: Antimicrobial susceptibility testing / Water

Principles & Uses

Brain Heart Infusion Broth (BHI) is a liquid culture medium rich in nutrients, ideal for cultivating a diverse range of microorganisms. It's particularly suitable for fastidious bacterial strains like *streptococci*, *meningococci*, *pneumococci*, as well as fungi and yeasts. BHI Broth finds application in Standard Methods for water testing and antimicrobial susceptibility tests. The medium's nutritional richness is derived infusions and a peptone mixture, providing crucial elements like nitrogen, vitamins, minerals, and amino acids for microbial growth. Dextrose serves as the carbon and energy source, while sodium chloride helps maintain osmotic balance.

BHI Medium's versatility extends to various microorganisms, including both fastidious and non-fastidious bacteria, aerobic and anaerobic, making it suitable for an array of applications. Its nutritive quality and buffering capacity support the growth of a wide range of microorganisms.

This highly nutritive BHI Broth is not only used for cultivating microorganisms but also for antimicrobial susceptibility testing, with the flexibility to support the needs of many different organisms.

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 from dehydrated Powder

Dissolve 37 g of the medium in one Liter of purified water. Mix well to completely dissolve the medium. Autoclave at 121°C for 15 minutes.

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

Cultural Response

Cultural response was observed after incubation at 35 ± 2°C for 18-48 hours.

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

*ATCC is a registered trade mark of the American Type Culture Collection.



P. aeruginosa (left). *C. albicans* (right)

Storage

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