

## BHI BROTH

### Presentation

Flip-top plastic tube with 9ml.

### Sterilization method

Gamma irradiation.

### Application

BHI broth (Brain Heart Infusion Broth) is a culture medium recommended for the cultivation of streptococci, pneumococci, meningococci, enterobacteria, non-fermenters, yeasts, fungi, and fastidious microorganisms. It can be used in the preparation for antimicrobial sensitivity testing (antibiogram), coagulase test in tube, bacterial growth test at 42°C and 44°C, and motility test on slides.

### Principle

Brain Heart Infusion is essentially a buffered infusion broth, derived from brain and heart nutrients, peptone, and dextrose. Peptone and infusion are sources of nitrogen, carbon, sulfur, and vitamins, and dextrose is a source of carbohydrate.

### How to use

Inoculate according to the methodology used by the laboratory. Incubate for the time and temperature specified in the adopted technique.

### Quality Control

Test	Result
Sterility	Absence of microbial growth
<i>Escherichia coli</i> ATCC 25922	Good growth with turbidity of the medium
<i>Staphylococcus aureus</i> ATCC 25923	Good growth with turbidity of the medium
<i>Streptococcus pyogenes</i> ATCC 19615	Good growth with turbidity of the medium
<i>Candida albicans</i> ATCC 10231	Good growth with turbidity of the medium
Appearance	Liquid medium, medium amber, clear, may present slight precipitate
pH at 25°C	7.4 ± 0.2

### Results interpretation

Microbial growth is evidenced by the turbidity of the medium. If growth is observed, perform microscopic analysis, subculture on selective media, and biochemical tests to identify isolated genera and species, if necessary. Perform the reading according to official compendia or internal laboratory methodology.

### Precautions and special care

Product intended for *in vitro* diagnostic use only.

Restricted for use by professionals. Do not inhale or ingest.

Do not use the product beyond the expiration date, with signs of contamination, or if it has changed color. In the presence of contamination, the product should be immediately discarded.

Do not use the product if the packaging is damaged or tampered with.

### Storage

Store between 2-35°C in a dry place and protect from light. Transport at room temperature.

### Shelf-life

1 year from the date of manufacture.

### Disposal of the product

After use, the product must be handled at the generating unit before environmentally appropriate final disposal, in accordance with official regulations.

### Quality Guarantee

bioBoaVista guarantees the quality of its products as long as they are used according to their respective instructions and in accordance with national and international references. bioBoaVista does not take responsibility for the use of its products for purposes other than those described and approved by the company. All clinical diagnoses should be analyzed in conjunction with clinical evidence and not solely based on laboratory results.

### References

1. Becton, Dickinson and Company. Difco & BBL Manual. Manual of Microbiological Culture Media, 2nd ed., 2009.
2. ISO 11133:2014. Microbiology of food, animal feed and water - Preparation, production, storage and performance testing of culture media.
3. ANVISA. Microbiologia Clínica para o Controle de Infecção Relacionada à Assistência à Saúde. Módulo 5: Descrição dos meios de cultura empregados nos exames microbiológicos, 2013.
4. Sigma-Aldrich. Microbiology Manual. 3rd ed., 2008.