

**MM0106**

## **BHI Broth** **(Brain-Heart Infusion Broth )**

### **Use and description:**

BHI Broth is used for the cultivation of a wide range of fastidious organisms. It is specified in many references for food and water testing . NCCLS cites BHI Broth for preparing the inoculum used in antimicrobial susceptibility tests.

BHI Broth can be supplemented with antibiotics, varying amounts of sodium chloride , yeast extract and serum to provide a rich medium for bacteria, yeasts and pathogenic fungi. The addition of 0.1% agar can be used to lower oxygen tension , providing an atmosphere to support the growth of aerobic , microaerophilic and obligate anaerobic microorganisms.

### **Composition per liter:**

BHI Solid .....17.5 g  
Gelatin Peptone .....10.0 g  
Sodium Chloride .....5.0 g  
Disodium Phosphate .....2.5 g  
Glucose ..... 2.0 g

**Final pH of the ready to use medium:** 7.4 ± 0.2

### **Medium preparation:**

Add 37.0 grams of dehydrated culture medium to 1 liter of distilled water. Mix thoroughly. Autoclave for 15 min at 121°C.

### **Quality specifications:**

Dehydrated medium: cream- white fine powder.  
Ready to use medium: light amber - limpid

### **Microbiological response: after 48H of incubation**

<b>Organism</b>	<b>Result</b>	<b>Growth</b>
<i>Staphylococcus Aureus</i> DSM 799	Growth	score 1-2
ATCC 6538P	Growth	score 1-2
ATCC 25923	Growth	score 1-2
<i>Clostridium Perfringens</i> ATCC 13124	Growth	score 1-2

### **Storage:**

Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dark, dry place. The dehydrated medium should not be used if there is any lump or if the color has changed from the original.