

**MM0175**

## **Brain Heart Infusion Agar (BHI Agar)**

### **Use and description:**

Brain Heart Infusion Agar is recommended for the cultivation of a wide variety of fastidious and nonfastidious, aerobic and anaerobic microorganisms including streptococci, *Neisseria* spp, yeasts and moulds. With addition of antibiotics, Brain Heart Infusion Agar could be made to be selective for pathogenic fungi. This medium can be used for the selective isolation of *Histoplasma capsulatum* and *Blastomyces* with addition of 10% defibrinated blood, 0.05 mg cycloheximide and 0.5 mg chloramphenicol per ml. The following supplements can be added to increase selectivity: penicillin (*MMS06*), (20 units/mL) and streptomycin (*MMS07*), (40 mcg/mL).

### **Composition per liter:**

Peptones.....	12.0 g
Yeast Extract .....	3.4 g
Brain heart infusion solid.....	12.0 g
Dextrose.....	2.0 g
Sodium chloride.....	5.0 g
Disodium hydrogen phosphate.....	2.5 g
Agar.....	15.0 g

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

### **Medium preparation:**

Add 52.0 grams of dehydrated culture medium to 1 liter of distilled water. Mix thoroughly. Gently heat and bring to boiling. Autoclave for 15 min at 121°C. Pour into sterile Petri dishes or leave in tubes.

### **Quality specifications:**

Dehydrated medium: homogeneous, light beige fine powder.  
Ready to use medium: clear and yellow beige.

### **Microbiological response:**

<b>Organism</b>	<b>Result</b>
<i>Neisseria meningitidis</i> ATCC 13090	Growth
<i>Streptococcus pneumoniae</i> ATCC 6305	Growth
<i>Streptococcus pyogenes</i> ATCC 19615	Growth

### **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.