

Brain Heart Infusion Broth w/o Dextrose



Medium used for the cultivation and enumeration of fastidious, aerobic, anaerobic microorganisms.

• CONTENTS (Liter)

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|------------------------------|--------|
| Brain Infusion Solids | 7.7 g |
| Beef Heart Infusion Solids | 9.8 g |
| Proteose Peptone | 10.0 g |
| Sodium Chloride | 5.0 g |
| Disodium Phosphate | 2.5 g |
| Final pH = 7.4 ± 0.2 at 25°C | |

• PROCEDURE

Suspend 35.0 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Pour into tubes.

• INTERPRETATION

Brain Heart Infusion Broth w/o Dextrose is a medium used for the cultivation and enumeration of fastidious, aerobic, anaerobic microorganisms. Brain infusion solids, beef heart infusion solids, proteose peptone provide nitrogen, vitamins, minerals and amino acids essential for the growth of a variety of microorganisms. Sodium chloride maintains the osmotic balance. Disodium phosphate is the buffering agent.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Incubate at 35 ± 2°C for 18 - 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light tan

Prepared medium

Appearance: clear

Color: light amber

Incubation conditions: 35 ± 2°C / 18 - 48 hours

| Microorganism | ATCC | Inoculum CFU | Growth |
|-----------------------------------|-------|--------------|--------|
| * <i>Streptococcus pneumoniae</i> | 6305 | 50-100 | good |
| * <i>Streptococcus pyogenes</i> | 19615 | 50-100 | good |
| <i>Candida albicans</i> | 10231 | 50-100 | good |

* under microaerophilic condition.

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration are evident. Store prepared medium at 2 - 6°C.

• REFERENCES

1. Brown, J.H. 1919. The use of blood agar for the study of streptococci, NY Monograph No. 9. In Rockefeller Institute for Medical Research.
2. Ruoff, K.L. 1995. Streptococcus, p. 299-305. Manual of clinical microbiology, 6th ed.
3. NCCLS document M22-A2, 1996. Approved Standard.

• PACKAGE

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|---|-------|
| Cat. No : MB-B0629 Brain Heart Infusion Broth w/o Dextrose | 500 G |
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