

# Heart Infusion Agar

Medium used for the cultivation and enumeration of wide variety of fastidious microorganisms.

## • CONTENTS (Liter)

Beef Heart Infusion	10.0 g
Tryptose	10.0 g
Sodium Chloride	5.0 g
Agar	15.0 g
Final pH = 7.4 ± 0.2 at 25°C	

## • PROCEDURE

Suspend 40.0 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. Mix well. Pour into petri dishes.

## • INTERPRETATION

Heart Infusion Agar is a medium used for the cultivation and enumeration of wide variety of fastidious microorganisms. Beef heart infusion and tryptose provide nitrogen, carbon, amino acids and minerals. Sodium chloride maintains the osmotic balance. Agar is the solidifying agent.

## • TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 36 ± 1 °C for 18 - 48 hours. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

### Prepared medium

Appearance: clear

Color: light amber

Incubation conditions: 36 ± 1 °C / 18 - 48 hours

Microorganism	ATCC	Inoculum CFU	Growth	Haemolysis (w/ Blood)
<i>Escherichia coli</i>	25922	50-100	good	beta
<i>Staphylococcus aureus</i>	25923	50-100	good	beta
<i>Neisseria meningitidis</i>	13100	50-100	good	-
<i>Streptococcus pneumoniae</i>	6305	50-100	good	alpha
<i>Streptococcus pyogenes</i>	19615	50-100	good	beta

**• 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. Store prepared medium at 2 - 8°C.

**• REFERENCES**

1. Harmon, S.M., D.A. Kautter, D.A. Golden, and E.J. Rhodehamel (1995). P. 9.01-9.24. App. 3.24-3.25. FDA Bacteriological Analytical Manual, 8th ed. AOAC International, Arlington, VA.

**• PACKAGE**

Cat. No : MB-H1020 Heart Infusion Agar	500 G
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