

**TECHNICAL SHEET**

<b>B1481</b>	<b>HEART INFUSION AGAR</b>					
<b>Formula</b>						
<b>Ingredients :</b>			<b>gms/lit.</b>			
Meat heart, infusion from			500.00			
Tryptose			10.00			
Sodium chloride			5.00			
Agar			15.00			
Final pH (at 25°C) : 7.4 ± 0.2						
<b>Directions :</b>						
Suspend 40 gms. in 1000 ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If desired 5% sterile defibrinated blood may be added. Mix well and pour into sterile petri plates or tubes.						
<b>Principle :</b>						
Tryptose and beef heart infusion provides nutritional requirements of pathogenic bacteria. Heart Infusion Broth can be modified by adding dextrose, blood or other ingredients for use in variety of purposes. The medium can also be used for the cultivation of some anaerobes by addition of 0.1 – 0.2% agar, Addition of 65 g/l of sodium chloride will aid in differentiating Enterococci from other Streptococci, as the Enterococci grow in presence of high salt while other Streptococci as pyogenic, viridans and lactic are unable to grow.						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour :			Light yellow			
Appearance :			Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :			7.4 ± 0.2			
Colour (post autoclaving/heating) :			a) Basal medium : light yellow b) With addition of blood : Cherry red			
Clarity (post autoclaving/heating) :			Opaque			
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 18 –48 hrs. at 35-37°C.						
MICROORGANISM (ATCC )	GROWTH	HEART INFUSION AGAR WITH 5% SHEEP BLOOD	HAEMOLYSIS			
Escherichia coli (25922)	Good - luxuriant	Luxuriant	Beta			
Neisseria meningitidis (13090)	Good - luxuriant	Luxuriant	None			
Streptococcus pneumoniae (6303)	Good - luxuriant	Luxuriant	Alpha			
Streptococcus pyogenes (19615)	Good - luxuriant	Luxuriant	Beta			
Staphylococcus aureus (25923)	Good - luxuriant	Luxuriant	Beta			
<b>Precautions :</b>		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>		For isolation and cultivation of a wide variety of fastidious organisms. Recommended by ISO				
<b>Storage :</b>		Dehydrated medium- below 30 ° C Prepared mediums– Between 2 to 8°C.				
<b>Packing :</b>		500 gm bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B1481</b>	40.0 g/l	12.50 L	7.4± 0.2	5% sterile defibrinated blood	121°C/15min.	

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**Disclaimer:**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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