

TECHNICAL SHEET

B201	HEART INFUSION AGAR					
Formula						
Ingredients :		gms/lit.				
Meat heart, infusion from#		500.00				
Tryptose		10.00				
Sodium chloride		5.00				
Agar		15.00				
#- Equivalent to Beef heart, infusion from						
Final pH (at 25°C) : 7.4 ± 0.2						
Directions :						
Suspend 40 grams in 1000 ml of distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If desired 5% v/v sterile defibrinated blood may be added. Mix well and pour into sterile Petri plates.						
Principle :						
Tryptose and Meat heart infusion provide nutritional requirements for the pathogenic bacteria. Sodium chloride maintains the osmotic equilibrium of the medium. Heart Infusion Agar can also be supplemented with glucose, horse serum and antibiotics for the cultivation a wide variety of organisms. Heart Infusion Agar is used for mass cultivation of organisms for preparation of vaccines. On supplementation of blood, Heart Infusion Agar can be used to study haemolytic reactions. This medium was used for isolation and enumeration of haemolytic Streptococci in milk						
QC Tests – (I) Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
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				
(III) Q.C. Test Microbiological						
Cultural characteristics observed with added 5-7% w/v sterile defibrinated blood, after an incubation at 35-37°C for 18-48 hours.						
MICROORGANISM (ATCC)		GROWTH W/O BLOOD	GROWTH WITH 5% SHEEP BLOOD	HAEMOLYSIS		
Escherichia coli (25922)		Luxuriant	Luxuriant	Beta		
Neisseria meningitidis (13090)		Luxuriant	Luxuriant	None		
Streptococcus pneumoniae (6303)		Good	Luxuriant	Alpha		
Streptococcus pyogenes (19615)		Good	Luxuriant	Beta		
Staphylococcus aureus (25923)		Good - luxuriant	Luxuriant	Beta		
Precautions :		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
Limitations :		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
Use :		For isolation and cultivation of a wide variety of fastidious organisms.				
Storage :		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
Packing :		500 gm bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B201		40.0 g/l	12.50 L	7.4 ± 0.2	5% sterile defibrinated blood	121°C/15min.

Refer disclaimer Overleaf

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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