

TECHNICAL SHEET

B119	BRAIN HEART INFUSION AGAR		
Formula			
Ingredients :		gms/lit.	
HM infusion powder #	12.50		
BHI powder	5.00		
Proteose peptone	10.00		
Dextrose (Glucose)	2.00		
Sodium chloride	5.00		
Disodium phosphate	2.50		
Agar	15.00		
# Equivalent to Calf brain infusion from			
Final pH (at 25°C) : 7.4 ± 0.2			
Directions :			
Suspend 52.0 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates. If desired, 20 units Penicillin and 40 µg Streptomycin per ml of medium may be added to make the medium selective for fungi.			
Principle :			
Proteose peptone and infusions used in the media serves as sources of carbon, nitrogen, vitamins, amino acids, along with essential growth factors. Dextrose is the energy source. Sodium chloride maintains the osmotic equilibrium of the medium while disodium phosphate buffers the medium. Defibrinated sheep blood added to the basal medium provides essential growth factors for the more fastidious fungal organisms. Addition of 50 mg/l chloramphenicol or 40mg/l streptomycin or a mixture of 50mg/l gentamicin and 50mg/l chloramphenicol along with 5-10% sterile defibrinated blood is often recommended for inhibition of bacteria and isolation of pathogenic systemic fungi.			
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) :	Basal medium: Light amber After addition of 5% v/v sterile defibrinated blood: Cherry red	
	Clarity (post autoclaving/heating) :	Basal medium: Clear to slightly opalescent gel. After addition of 5% v/v sterile defibrinated blood: opaque gel forms in Petri plates.	
(III) Q.C. Test Microbiological			
	Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours (If desired add 5% v/v sterile defibrinated blood).		
	MICROORGANISM (ATCC)	GROWTH	GROWTH W/ BLOOD
	Streptococcus pneumoniae (6303)	luxuriant	luxuriant
	Staphylococcus aureus (25923)	luxuriant	luxuriant
	Candida albicans (26790)	luxuriant	luxuriant
	Escherichia coli (25922)	luxuriant	luxuriant
	Shigella flexneri (12022)	luxuriant	luxuriant
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 the cultivation of fastidious pathogenic bacteria, yeasts and moulds from clinical and non clinical samples.		
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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
B119	52 g/l	9.615L	7.4 ± 0.2	5% v/v sterile defibrinated blood or 20 units Penicillin and 40 microgram Streptomycin if desired	121°C / 15 minutes