

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B977	CHARCOAL BLOOD AGAR BASE		
Formula			
Ingredients :		gms/lit.	
Peptic digest of animal tissue	10.00		
Meat extract B#	10.00		
Yeast extract	3.50		
Sodium chloride	5.00		
Starch,soluble	10.00		
Charcoal	4.00		
Agar	12.00		
# Equivalent to beef extract			
Final pH (at 25°C) :		7.5± 0.2	
Directions :			
Suspend 54.5 gms in 900 ml. purified/distilled water. Heat to Boil to dissolve the medium with frequent stirring. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Add 10 ml of sterile defibrinated horse blood, 0.3 ml of sterile 100 u/ml Penicillin solution and 0.3 ml of 0.1% solution of 4:4 diamidodiphenylamine hydrochloride per 100 ml of Charcoal Blood Agar Base.			
Principle :			
The ingredients like peptic digest of animal tissue, gelatin peptone, meat extract B and yeast extract provide essential nutrients to the organisms. Sodium chloride maintains osmotic balance. The difficulty in the isolation of Bordetella pertussis from nasopharyngeal secretions is the repression of unwanted flora during the long incubation period on nutritious media. Penicillin can be added to the medium as an antimicrobial agent for restricting the other contaminants. However Penicillin resistant flora still cause the contamination. Methicillin was found to be superior than Penicillin in suppressing unwanted nasopharyngeal flora. Charcoal Blood Agar Base of half strength with Cephalexin, is a selective enrichment medium. Charcoal Blood Agar Base is used for the cultivation of Bordetella pertussis for vaccine production. The medium can also be used for the maintenance of stock cultures of Bordetella pertussis on slants with weekly subcultures.			
QC Tests - (I) Dehydrated Medium			
Colour :	Grey to greyish black		
Appearance :	Homogeneous Free Flowing powder		
(II) Rehydrated medium			
pH (post autoclaving/heating) :	7.5 ± 0.2		
Colour (post autoclaving/heating) :	Black		
Clarity (post autoclaving/heating) :	Opeque gel with undissolved black particles in petri plates		
(III) Q.C. Test Microbiological			
Cultural characteristics observed with /added sterile defibrinated blood & 100u/ml penicillin solution and 0.1% solution of 4:4 diamidodiphenylamine hydrochloride after incubation an for 24 - 48 hrs. at 35-37°C.			
MICROORGANISM (ATCC)	GROWTH		
Bordetella bronchiseptica (4617)	Good-Luxuriant		
Bordetella pertussis (8467)	Good-Luxuriant		
Bordetella parapertussis (15311)	Good-Luxuriant		
Staphylococcus aureus (25923)	Inhibited		
Klebsiella pneumoniae (13883)	Inhibited		

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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 cultivation of <i>Bordetella pertussis</i> for vaccine production and also for the maintenance of stock cultures. It is also used for clinical samples.				
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
B977	54.5 g/l	9.17L	7.5 ± 0.2	sterile defibrinated horse blood, 0.3 ml of sterile 100 u/ml Penicillin solution and 0.3 ml of 0.1% solution of 4:4 diamidodiphenylamine hydrochloride	121 ⁰ C / 15 minutes

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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