

TECHNICAL SHEET

B978	CHARCOAL AGAR W/ NIACIN					
Formula						
Ingredients :		gms/lit.				
Pancreatic digest of gelatin		10.00				
Beef extract		10.00				
Sodium chloride		5.00				
Starch,soluble		10.00				
Charcoal		4.00				
Niacin		0.01				
Agar		12.00				
Final pH (at 25°C) :		7.4 ± 0.2				
Directions :						
Suspend 51 gms in 1000 ml. distilled water. Boil to dissolve the medium with frequent stirring. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 45-50°C.						
Principle :						
The ingredients like gelatin peptone, beef 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 Agar with Niacin can be converted to Chocolate Agar for isolation of Haemophilus species.						
QC Tests - (I) Dehydrated Medium						
Colour :		Grey to greyish black				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.4 ± 0.2				
Colour (post autoclaving/heating) :		Black				
Clarity (post autoclaving/heating) :		Opeque				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 24 - 48 hrs. at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH				
Bordetella bronchiseptica (4617)		Luxuriant				
Bordetella pertussis (8467)		Luxuriant				
Bordetella parapertussis (15311)		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 :		B978: For cultivation and isolation of Bordetella pertussis and Haemophilus influenzae.				
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
B978		51 g/l	9.80L	7.4 ± 0.2	NIL	121°C / 15 minutes

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