

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B140	CHAPMAN STONE AGAR					
Formula						
Ingredients :		gms/lit.				
Tryptone		10.00				
Yeast extract		2.50				
Gelatin		30.00				
D-Mannitol		10.00				
Sodium chloride		55.00				
Ammonium sulphate		75.00				
Dipotassium phosphate		5.00				
Agar		15.00				
Final pH (at 25°C) : 7.0 ± 0.2						
Directions :						
Suspend 20.25 grams in 100 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 10 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates.						
Principle :						
Yeast Extract and Tryptone provide nitrogen, carbon, sulfur, vitamins, and trace nutrients essential for growth. Gelatin serves as a substrate for gelatinase activity. Ammonium Sulfate allows detection of gelatin hydrolysis. D-Mannitol is the fermentable carbohydrate. Sodium Chloride acts as a selective agent because most bacterial species are inhibited by the high salt content. Dipotassium Phosphate provides buffering capability. Agar is the solidifying agent.						
QC Tests – (I)Dehydrated Medium						
Colour :		Cream to light yellow				
Appearance :		Coarse Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		7.0 ± 0.2				
Colour (post autoclaving/heating) :		Cream to light amber				
Clarity (post autoclaving/heating) :		Opalescent gel				
(III)Q.C. Test Microbiological						
Cultural characteristics observed after an incubation at 25 - 30°C for 18 - 48 hours.						
	MICROORGANISM (ATCC)	GROWTH	GELATINASE PRODUCTION	MANNITOL FERMENTATION		
	Staphylococcus aureus (25923)	Luxuriant	positive reaction, clearing or halo	positive reaction, production of yellow colour on addition of Bromo cresol purple		
	Staphylococcus epidermidis (12228)	Luxuriant	positive reaction, clearing or halo	negative reaction, no production of yellow colour on addition of Bromo cresol purple		
	Escherichia coli (25922)	Inhibited	-	-		
Precautions :		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. 3. HARMFUL. Harmful if swallowed, Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. Target organ(s) : Intestines, Lungs.				
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 selective isolation of Staphylococci causing food poisoning.				
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
B140	202.5g/l		2.469L	7.0 ± 0.2	Nil	121°C / 10 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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