

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B375	SDS AGAR (SODIUM DODECYL SULPHATE POLYMYXIN SUCROSE AGAR)				
Formula					
Ingredients :			gms/lit.		
Proteose peptone			10.00		
Beef extract			5.00		
Sucrose			15.00		
Sodium chloride			20.00		
Sodium dodecyl sulphate			1.00		
Bromothymol blue			0.04		
Cresol red			0.04		
Agar			15.00		
Final pH (at 25°C) : 7.6 ± 0.2					
Directions :					
Suspend 33.04 grams in 500 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 to 50°C and aseptically add rehydrated contents of 1 vial of Polymyxin B Selective Supplement (BF005). Mix well and pour into sterile Petri plates.					
Principle :					
The medium contains proteose peptone and beef extract which provide necessary growth nutrients like nitrogenous and carbonaceous compounds. Sucrose is a fermentable sugar. Addition of 2% sodium chloride to the medium provides necessary salinity for the growth of Vibrio . Bromothymol blue and cresol red act as pH indicators. Sodium dodecyl sulphate and polymyxin B sulphate are the selective agents.					
QC Tests – (I) Dehydrated Medium					
Colour :		Cream to yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.6 ± 0.2			
Colour (post autoclaving/heating) :		Reddish purple			
Clarity (post autoclaving/heating) :		opalescent gel			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.					
MICROORGANISM (ATCC)		GROWTH	COLOUR OF COLONY		
Vibrio cholerae (15748)		luxuriant	Yellow		
Vibrio vulnificus (29306)		luxuriant	Blue		
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 :		It is used for enrichment, isolation and enumeration of Vibrio vulnificus from seafood samples as per APHA.			
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
	B375	66.08 g/l	7.566 L	7.6 ± 0.2	Polymyxin B Selective Supplement (BF005).

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