BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B837 MUG LAURYL SULPHATE BROTH									
Formula									
Ingredients:				gms/lit.					
				20.00					
Lactose	, 3	5.	5.00						
			5.00						
Dipotassium pho				2.75					
					2.75				
Sodium lauryl sulphate 00.10									
4-Methylumbelliferyl -D- glucuronide									
(MUG) 0.05									
Final pH (at 25°C): 6.8 <u>+</u> 0.2									
Directions :									
Suspend 35.65 gms. in 1000 ml. distilled water. Heat to dissolve the medium completely. Dispense into									
tubes with inverted Durham's tubes. Sterilize By autoclaving at 15 lbs pressure (121°C) for 15 minutes.									
Principle:									
Casein enzymic hydrolysate provides nutrients while lactose act as energy sources. Sodium lauryl									
sulphate inhibits many organisms other than coliforms. 4-methylumbellifery — -D — glucuronide is									
hydrolyzed by an enzyme —glucuronidase possessed by organisms to yield 4-methylumbelliferone, a									
fluorescent end product. QC Tests – (I) Dehydrated Medium									
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Colour :	Cream to light yellow								
Appearance :	Homogeneous Free Flowing powder								
(II) Rehydrated medium pH (post autoclaving/heating) : 6.8 ± 0.2									
	6.8 ± 0.2								
Colour (post autoclaving/heating) : Clarity (post autoclaving/heating) :			Light amber						
	Clear								
(III) Q.C. Test Microbiological									
Cultural characteristics observed after 4 –24 hrs.at 35-37°C. MICROORGANISM (ATCC) GROWTH FLUORESCENCE									
` /			GROWTH		FLUUI				
Escherichia coli (25922)			Luxuriant			+			
Enterobacter aerogenes (13048)			Luxuriant			-			
Key: + = fluorescence under UV light									
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 detection of coliform orgnisms in water and food specimens by a fluorogenic									
Use: For detection of coliform orgnisms in water and food specimens by a fluoroger procedure.							a nuorogenic		
Storage:	Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.								
	500 gm. bottle								
	Product profile: Reconstitution Quar		tyon	pH (25°C)		Supplement	Sterilization		
Troduct profile.	Reconstitution		ation (500g)		20 0)	Supplement	Stermzation		
B837	35.65g/l		4.025L	6.8	± 0.2	NIL	121°C / 15 minutes		