BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B837I MUG LAURYL SULPHATE BROTH, MODIFIED										
Formula										
Ingredients :			gms/lit.							
Casein enzymic h	ydrolysate 20.00									
Lactose	yarorysacc		5.00							
	ripotassium hydrogen phosphate									
Monopotassium p	2.75 2.75									
Sodium chloride										
4-Methylumbelliferyl β-D-glucuronide (MUG) 0.10										
Sodium lauryl sulphate 0.10										
Tryptophan					1.00					
	25°C): 6.8 ± 0.2									
Directions :										
Suspend 36.7 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely.										
Dispense into tubes with inverted Durham's tubes as required. Sterilize by autoclaving at 15 lbs pressure										
(121°C) for 15 minutes.										
Principle:										
Casein enzymic hydrolysate provides nutrients while lactose acts as energy source. Sodium lauryl sulphate										
inhibits many organisms other than coliforms. 4-methylumbelliferyl- beta -D-glucuronide is hydrolyzed by										
the enzyme beta-glucuronidase to yield 4-methylumbelliferone, a fluorescent end product.										
QC Tests - (I)Dehydrated Medium										
Colour :	Cream to yellow									
Appearance :			Homogeneous Free Flowing powder							
(II)Rehydrated medium										
pH (post autoc	6.8 ± 0.2	6.8 ± 0.2								
			Light amber							
Clarity (post autoclaving/heating) :			Clear							
(III) Q.C. Test Microbiological										
Cultural characteristics observed after an incubation at 30°C for 24 hours										
			ROWTH				I F PRODUCTION			
			uxuriant		1 2001	+ POSITIVE REACTION,				
			uxuriant	· -			ATIVE REACTION			
	Key: + = fluorescence under UV light									
Precautions:	For Laboratory Use.									
i i ecautions :	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.								is may be		
Use :	It is used as a selective enrichment medium for enumeration of presumptive Escherichia									
coli and other coliforms from milk and milk products.							ampuve Escherichia			
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.									
Packing:	500 gm. bottle									
Product profile: Reconstitution Quanti			, on	nН	(25°C)	Supplement		Sterilization		
i roduct prome.		Preparation (500g)		Pil	ρι (23 C) Supp		-110	Stermzation		
B837I	36.7 g/l		.623 L	6.8	3 ± 0.2	NIL		121°C / 15 minutes		