BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1220 MUG MFC AGAR							
Formula							
Ingredients: gms/lit.							
Tryptose 10.00							
Proteose peptone			5.00				
Yeast extract			3.00				
Bile salts			1.50				
Sodium chloride 5.00							
4-Methylumbelliferyl ß-D-Glucuronide (MUG) 0.10							
Agar 15.00							
Final pH (at 25°C): 7.4 <u>+</u> 0.2							
Directions:							
Suspend 39.6 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. DO							
NOT AUTOCLAVE. Mix well and pour into sterile Petri plates.							
Principle:							
Tryptose and proteose peptone provide carbon, nitrogen, vitamins and minerals necessary for the growth							
of faecal coliforms. Yeast extract provides B-complex vitamins, which stimulate bacterial growth. Bile							
salts inhibit the growth of gram-positive microorganisms. Incorporation of MUG in the medium permits rapid detection of E. coli , when the medium is observed for fluorescence under long-wave UV light.							
QC Tests – (I)Dehydrated Medium							
				Cream to yellow			
			Homogeneous Free Flowing powder				
(II)Rehydrated medium							
pH (post autoclaving/heating) :			7.4 ± 0.2				
Colour (post autoclaving/heating):			vellow				
			clear to slightly opalescent gel				
(III)Q.C. Test Microbiological							
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours							
MICROORGANISM (ATCC) GROWT							
Thereore, when the terms of the		orto	(UNDER UV)*				
Escherichia coli (25922) luxuria		luxuriar		ositive			
	Enterococcus faecalis (29212) inhibit						
SalmonellaTyphimurium (14028) luxurian				egative			
Shigella flexneri (12022) luxuriar			negative				
* - Fluorescence can be visualized on addition of NaOH solution or exposure to ammonia fumes.							
Precautions :							
	2. Follow proper, established laboratory procedures in handling and disposing of						
infectious materials.						1 3	
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 recommended for cultivation and enumeration of faecal coliforms by the me						rms by the membrane	
filter technique at elevated temperature.							
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
Packing:	500 gm bottle						
Product profile: Reconstitution Quantity or				pH (25°C)	Supplement	Sterilization	
		eparation (500g					
B1220	39.60 g/l	12.62	26 L	7.4 <u>+</u> 0.2	NIL	DO NOT	
						AUTOCLAVE.	

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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