

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B803	MUG TRYPTONE WATER					
Formula						
Ingredients :		gms/lit.				
Casein enzymic hydrolysate		10.00				
Sodium chloride		5.00				
4-Methylumbelliferyl β-D- glucuronide (MUG)		0.05				
Final pH (at 25°C) : 7.5 ± 0.2						
Directions :						
Suspend 15.05 gms. in 1000 ml. distilled water. Dispense into tubes. Sterilize By autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
Principle :						
The ability of certain microorganisms to break down tryptophan with the formation of indole is an important property for identification of bacteria. However in this medium, MUG is added so as to detect indole producing microorganisms by fluorogenic method.						
QC Tests – (I)Dehydrated Medium						
Colour :		Cream				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		7.5 ± 0.2				
Colour (post autoclaving/heating) :		Colourless				
Clarity (post autoclaving/heating) :		Clear				
(III)Q.C. Test Microbiological						
Cultural characteristics observed after 18 –24 hrs. at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH		FLUORESCENCE		
Enterobacter aerogenes (13048)		Luxuriant		-		
Escherichia coli (25922)		Luxuriant		+		
Klebsiella pneumoniae (13883)		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 indole producing microorganisms by fluorogenic mehod.						
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
B803		15.05g/l	33.22L	7.5 ± 0.2	NIL	121°C / 15 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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