

TECHNICAL SHEET

B812	MUG TRYPTONE SOYA AGAR					
Formula						
Ingredients :		gms/lit.				
Casein enzymic hydrolysate		15.00				
Papaic digest of soyabean meal		5.00				
Sodium chloride		5.00				
4-Methylumbelliferyl β-D- glucuronide (MUG)		0.10				
Agar		15.00				
Final pH (at 25°C) : 7.3 ± 0.2						
Directions :						
Suspend 40.1 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize By autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
Principle :						
Casein enzymic hydrolysate, papaic digest of soyabean meal provide nitrogenous and other growth nutrients. The organism like E.coli cleave the MUG by the enzyme β-glucuronidase to release 4-methylumbelliferone which produces a visible green – blue fluorescence under long wave UV light.						
QC Tests – (I)Dehydrated Medium						
Colour :		Light yellow				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		7.3 ± 0.2				
Colour (post autoclaving/heating) :		Light yellow				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
(III)Q.C. Test Microbiological						
Cultural characteristics observed after 18 –48 hrs. at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH		FLUORESCENCE		
Neisseria meningitidis (13090)		Luxuriant		-		
Staphylococcus epidermidis (12228)		Luxuriant		-		
Streptococcus pneumoniae (6303)		Luxuriant		-		
Streptococcus pyogenes (19615)		Luxuriant		-		
Candida albicans (10231)		Luxuriant		-		
Staphylococcus aureus (25923)		Luxuriant		-		
Clostridium sporogenes (11437)		Luxuriant		-		
Bacillus subtilis (6633)		Luxuriant		-		
Escherichia coli (25922)		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 cultivation of fastidious and nonfastidious microorganisms by fluorogenic method.				
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
B812		40.1g/l	12.468L	7.3 ± 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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