

**TECHNICAL SHEET**

<b>B815</b>	<b>MUG PLATE COUNT AGAR</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Casein enzymic hydrolysate		5.00			
Yeast extract		2.50			
Dextrose		1.00			
4-Methylumbelliferyl β-D- glucuronide (MUG)		0.10			
Agar		15.00			
Final pH (at 25°C) : 7.0 ± 0.2					
<b>Directions :</b>					
Suspend 23.60 gms. in 1000 ml. distilled water. Heat gently to dissolve the medium completely. Sterilize By autoclaving at 15 lbs pressure (121°C) for 15 minutes. Pour in sterile petri plates.					
<b>Principle :</b>					
Casein enzymic hydrolysate, yeast extract provide nitrogenous compounds and vitamin B complex. Dextrose serves as energy source. MUG is cleaved by the enzyme β-glucuronidase to release 4-methylumbelliferone which produces a visible fluorescence under long wave UV light.					
<b>QC Tests – (I) Dehydrated Medium</b>					
Colour :		Yellow			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.0 ± 0.2			
Colour (post autoclaving/heating) :		Yellow			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 18 –24 hrs. at 35-37°C.					
MICROORGANISM (ATCC )		GROWTH		FLUORESCENCE	
Bacillus subtilis (6633)		Luxuriant		-	
Staphylococcus aureus (25923)		Luxuriant		-	
Escherichia coli (25922)		Luxuriant		+	
Lactobacillus casei (9595 )		Luxuriant		-	
Enterococcus faecalis (29212)		Luxuriant		-	
Streptococcus pyogenes (19615)		Luxuriant		-	
Key : + = fluorescence under UV light					
<b>Precautions :</b>					
1. For Laboratory Use.					
2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.					
<b>Limitations :</b>					
1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.					
<b>Use :</b>					
For determination of plate count of microorganisms in milk and other dairy products by fluorogenic method.					
<b>Storage :</b>					
Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.					
<b>Packing :</b>					
500 gm bottle					
<b>Product profile:</b>					
	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B815</b>	23.60g/l	21.186L	7.0 ± 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. The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.