

<b>B830</b>	<b>MUG MACCONKEY AGAR</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Peptic digest of animal tissue		20.00			
Lactose		10.00			
Bile salt mixture		1.50			
Sodium chloride		5.00			
Neutral red		0.03			
Crystal violet		0.001			
4-Methylumbelliferyl β-D- glucuronide (MUG)		0.10			
Agar		15.00			
Final pH (at 25°C) : 7.1 ± 0.2					
<b>Directions :</b>					
Suspend 51.63 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize By autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well before pouring.					
<b>Principle :</b>					
Peptic digest of animal tissue provide essential nitrogen compounds for the growth of coliforms. Lactose is the fermentable carbohydrate source. Bile salts and crystal violet inhibit the growth of gram- positive bacteria. Neutral red is the pH indicator. MUG is cleaved by the enzyme glucuronidase to release an end product 4- methylumbelliferone which produces a visible greenish – blue fluorescence under long wave ultra – violet light (366 nm).					
<b>QC Tests – (I) Dehydrated Medium</b>					
Colour :		Pinkish yellow			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.1 ± 0.2			
Colour (post autoclaving/heating) :		Red with purplish tinge			
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	
Enterobacter aerogenes (13048)		Luxuriant		-	
Escherichia coli (25922)		Luxuriant		+	
Key : + = fluorescence at 366nm					
<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 selective isolation and detection of lactose fermenting coliform organisms by a fluorogenic procedure.			
<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)	
<b>B830</b>		51.63g/l		9.684L	
		pH (25°C)		Supplement	
		7.1 ± 0.2		NIL	
		Sterilization		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 BIOMARK LABORATORIES 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.