

**TECHNICAL SHEET**

<b>B801</b>	<b>MUG VIOLET RED BILE AGAR</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Peptic digest of animal tissue		7.00				
Yeast extract		3.00				
Bile salts mixture		1.50				
Lactose		10.00				
Sodium chloride		5.00				
Neutral red		0.03				
Crystal violet		0.002				
4-Methylumbelliferyl $\beta$ -D- glucuronide (MUG)		0.10				
Agar		15.00				
Final pH (at 25°C) : 7.4 $\pm$ 0.2						
<b>Directions :</b>						
Suspend 41.63 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Boil for 1 minute. Cool the medium to 45-50°C and pour into sterile petri plates. DO NOT AUTOCLAVE.						
<b>Principle :</b>						
Peptic digest of animal tissue, yeast extract and lactose provide essential nutrients. Crystal violet and bile salts inhibit some gram – positive and gram – negative bacteria. Neutral red acts as a pH indicator and helps to exhibit red colonies in the presence of acid from lactose fermentation. The substrate, MUG is hydrolyzed by an enzyme $\beta$ -glucuronidase, which is present in most of E.coli and a few strains of Salmonella, Shigella and Yersinia to yield a fluorescent end product, 4-methylumbelliferone.						
<b>QC Tests – (I)Dehydrated Medium</b>						
Colour :		Pinkish yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II)Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.4 $\pm$ 0.2				
Colour (post autoclaving/heating) :		Reddish purple				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
<b>(III)Q.C. Test Microbiological</b>						
Cultural characteristics observed after 20 –24 hrs. at 35-37°C.						
MICROORGANISM (ATCC )		GROWTH		FLUORESCENCE		
Enterobacter aerogenes (13048)		Luxuriant		-		
Escherichia coli (25922)		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 the detection and enumeration of 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)	pH (25°C)	Supplement	Sterilization
<b>B801</b>	41.63g/l	12.01L	7.4 $\pm$ 0.2	NIL	DO NOT AUTOCLAVE	

Refer disclaimer Overleaf

**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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