

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B235</b>	<b>MUG BRILLIANT GREEN BILE BROTH</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Pancreatic digest of gelatin		10.00				
Lactose		10.00				
Oxgall		20.00				
Brilliant green		0.0133				
4-Methylumbelliferyl β-D-Glucuronide (MUG)		0.05				
Final pH (at 25°C) : 7.2 ± 0.2						
<b>Directions :</b>						
Suspend 40.1 gms. in 1000ml distilled water. Heat if necessary to dissolve the medium completely. Dispense 10ml amounts in test tubes containing inverted Durham's tubes. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. For testing larger quantities of samples prepare concentrated medium to accommodate volume of the test samples.						
<b>Principle :</b>						
Gelatin peptone and lactose provide nutrients and energy to the E.coli. Brilliant green and oxgall inhibit gram-positive and selected gram-negative organisms. Incorporation of MUG in the medium permits rapid detection of E.coli when the medium is observed for fluorescence using a long - wave UV light.						
<b>QC Tests - (I) Dehydrated Medium</b>						
Colour :		Light yellow to light green				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.2 ± 0.2				
Colour (post autoclaving/heating) :		Emerald green				
Clarity (post autoclaving/heating) :		Clear				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 18 - 24 hrs. at 35-37°C.						
MICROORGANISM (ATCC )		GROWTH	GAS	FLUORESCENCE		
Enterobacter aerogenes (13048)		Luxuriant	+	-		
Escherichia coli (25922)		Luxuriant	+	+		
Enterococcus faecalis (29212)		None - poor	-	-		
Staphylococcus aureus (25923)		Inhibited	-	-		
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 detection of E.coli in water and food samples by the fluorogenic assay 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>B235</b>	40.1g/l		12.4688L	7.2 ± 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 BIOMARK LABORATORIES publications.

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