

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B1219</b>	<b>MUG EC O157 AGAR, MODIFIED</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Peptic digest of animal tissue		20.00				
Sodium chloride		5.00				
Bile salts		1.12				
Sorbitol		20.00				
4-Methylumbelliferyl β-D-Glucuronide (MUG)		0.05				
Bromocresol purple		0.015				
Agar		12.00				
Final pH (at 25°C) : 7.2 ± 0.2						
<b>Directions :</b>						
Suspend 58.18 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates						
<b>Principle :</b>						
Bile salts inhibit the growth of gram-positive microbes. Sorbitol provides carbon and energy source. Bromocresol purple is pH indicator. Microorganisms utilizing sorbitol exhibit yellow colonies whereas sorbitol-negative strains (such as E. coli O157:H7) grow as colourless colonies.						
<b>QC Tests – (I)Dehydrated Medium</b>						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II)Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.2 ± 0.2				
Colour (post autoclaving/heating) :		Light purple				
Clarity (post autoclaving/heating) :		clear to slightly opalescent gel				
<b>(III)Q.C. Test Microbiological</b>						
Cultural characteristics observed after an incubation at 35-37°C for 16-24 hours						
MICROORGANISM (ATCC )	GROWTH	COLOUR OF COLONY	SORBITOL	FLUORESCENCE (UNDER UV)*		
Bacillus cereus (10876)	none to poor					
Bacillus subtilis (6633)	inhibited	--	--			
Escherichia coli O157:H7	luxuriant	colourless	negative reaction	negative		
Escherichia coli (25922)	luxuriant	yellow	Positive reaction	positive		
Enterococcus faecalis (29212)	inhibited	---	--	negative		
Serratia marcescens (8100)	luxuriant	pink	Positive reaction	negative		
* - Fluorescence can be visualized on addition of NaOH solution or exposure to ammonia fumes.						
<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>		It is recommended for direct isolation and differentiation of Escherichia coli O157:H7 from foodstuffs and clinical specimen.				
<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>B1219</b>		58.18 g/l	8.594 L	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 BIOMARKLABORATORIES publications.

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