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TECHNICAL SHEET

B1218 MUG EC 0157 AGAR								
FORMULA								
Ingredients : gms/lit.								
Casein peptone 20.00								
Meat extract		2.00						
Yeast extract		1.00)					
Sorbitol	10.			0.00				
Ferric ammonium citrate 0.5			.50					
Sodium chloride				00				
Bromothymol blue	e	0.0	025					
Sodium thiosulpha	ate	2.0						
Sodium deoxycho	late	1.1	.2					
4-Methylumbellife								
ß-D-Glucuronide	(MUG)	0.1	.0					
Agar	13.00							
Final pH (at 25°C) : 7.4 <u>+</u> 0.2								
Directions :								
Suspend 54.74 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 and pour into sterile Petri plates.								
Principle :								
Sodium deoxycholate inhibits the growth of gram-positive microbes. Sorbitol provides carbon and energy								
source. Bromothymol blue is the pH indicator. Microorganisms utilizing sorbitol exhibit yellow colonies								
whereas sorbitol-negative strains such as E.coli O157:H7 grow as greenish colonies. Hydrogen suphide								
production is detected as black-brown colony colouration due to presence of sodium thiosulphate and								
ferric ammonium citrate.								
QC Tests – (I)Dehydrated Medium								
Colour :	Cream to yellow							
				Homogeneous Free Flowing powder				
(II)Rehydrated medium								
pH (post autoclaving/heating) :			7.4 ± 0.2					
Colour (post autoclaving/heating) :			Bluish green					
Clarity (post au	clear to slightly opalescent gel							
(III)Q.C. Test Microbiological								
Cultural characteristics observed after 18 –24 hrs.at 35-37°C.								
MICROORGANISM (ATCC) GRO				Colour of colony		Fluorescence (under UV)*		
· · · · · · · · · · · · · · · · · · ·		8) luxuri				negative		
		luxuri				negative		
		luxuri				positive		
· · · · ·		inhibi				negative		
		luxuri	iant	brown, may show black				
Salmonella Typhimurium (14028) lu		28) 10205		colouration yellow w/black centre		negative		
Salmonella Typhimurium (14028) luxuriant yellow w/black centre negative * - Fluorescence can be visualized on addition of NaOH solution or exposure to ammonia fumes.								
Precautions :								
riccaulions .	2. Follow proper, established laboratory procedures in handling and disposing of							
infectious materials.Limitations :1. Since the nutritional requirements of organisms vary, some strains may be								
							ns may be	
encountered that fail to grow or grow poorly on this medium.Use :It is recommended is for isolation and differentiation of enterohaemorrhagic Escherichia								
Use : It is recommended is for isolation and differentiation of enterohaemorrhagic Escherich coli O157:H7 from foodstuffs, water and clinical samples by a fluorogenic method.							5	
Packing :	500 gm bottle	Oupptite	<u></u>		Cupplant	ont	Ctorilization	
Product profile:	Reconstitution	Quantity of Preparation		pH (25°C)	Suppleme	ent	Sterilization	
B1218	54.74 g/l	9.13		7.4 <u>+</u> 0.2	NIL		121°C/ 15 minutes	
	5,						,	

Refer disclaimer overleaf

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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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