BIOMARK Laboratories-INDIA www.biomarklabs.com TECHNICAL SHEET

B813 M	UG SORBITOL A	GAR								
Formula										
Ingredients : gms/lit.										
Peptic digest of animal tissue 17.00										
	roteose peptone					3.00				
D-Sorbitol	10.00									
Bile salts mixture				1.50						
Sodium chloride	5.00									
Neutral red	0.03									
Crystal violet 0.001										
4-Methylumbelliferyl B-D-Glucuronide (MUG) 0.10										
Agar 13.50										
Final pH (at 25°C) : 7.1 ± 0.2										
Directions :										
Suspend 50.13 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.										
Principle :										
Bile salts mixture and crystal violet in the medium inhibit most of the grampositive organisms, which										
accompany the specimen many times. Sorbitol, a polyhydric alcohol corresponding to glucose, serves as										
a substrate to determine the cleavage of sorbitol by sorbitol degrading microorganisms. Sorbitol										
degrading microorganisms produce pink to red colonies while sorbitol negative colonies are colourless.										
MUG (4-Methyl-umbellifery B-D-Glucuronide) is converted into a fluorescent product 4-Methyl-										
umbelliferone by the B-D-glucuronidase-producing organisms.										
QC Tests - (I)Dehydrated Medium										
				Light yellow to pink						
				Homogeneous Free Flowing powder						
(II)Rehydrated medium										
pH (post autoclaving/heating) :				7.1 ± 0.2						
Colour (post autoclaving/heating) :			Purplish red							
				clear to slightly opalescent gel						
(III)Q.C. Test Microbiological										
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours										
MICROORGANISM (ATCC) GRO							FLUORESCENCE			
				COLONY			(UNDER UV)*			
Escherichia co	oli 0157:H7	qood-		olourless	ne		negative			
		luxuriant								
		luxuriar		ink - red	Po	sitive reaction	positive			
Staphylococcus aureus (25923) inhibited * - Fluorescence can be visualized on addition of NaOH solution or exposure to ammonia fumes.										
Precautions :										
2. Follow proper, established laboratory procedures in handling and disposing of										
Limitations	infectious materials.									
Limitations : 1. Since the nutritional requirements of organisms vary, some strains may be										
encountered that fail to grow or grow poorly on this medium. Use : It is used for the isolation and identification of enteropathogenic Escherichia							acharichia cali			
							scherichia coll			
associated with infant diarrhea by fluorogenic method.							- 000			
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.									
Packing: 500 gm bottle										
Product profile			n n (500g	pH (25°	-	Supplement	Sterilization			
B813	50.13 g/l	9.97		7.1 <u>+</u> 0	.2	NIL	121°C/ 15 minutes			

Refer disclaimer Overleaf

BIOMARK Laboratories-INDIA www.biomarklabs.com TECHNICAL SHEET

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.

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.

Page 0 2 of 02