

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B143	SUGAR FREE AGAR				
Formula					
Ingredients :		gms/lit.			
Pancreatic digest of gelatin		7.50			
Casein enzymic hydrolysate		7.50			
Sodium chloride		5.00			
Agar		14.00			
Final pH (at 25°C) : 7.6 ± 0.2					
Directions :					
Suspend 34 gms. in 1000ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.					
Principle :					
The medium contains gelatin peptone and casein enzymic hydrolysate which provide essential nutrients to the microorganisms. It is free from carbohydrate, and the bacteria which grow on this medium are able to deaminate protein as a carbon source. Psychrotrophic and mesophilic gram – negative bacteria also grow well on this medium. Some Lancefield group D Streptococci are not able to grow on this medium and hence do not interfere in the total count of gram – negative bacteria. Thus, this medium helps in differentiating nonlactic acid contaminants from lactic acid bacteria.					
QC Tests – (I) Dehydrated Medium					
Colour :		Cream to Yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.6 ± 0.2			
Colour (post autoclaving/heating) :		Medium amber			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 18 - 48 hrs at 35-37°C.					
MICROORGANISM (ATCC)		GROWTH			
Bacillus cereus (10876)		Good-Luxuriant			
Candida albicans (10231)		Good-Luxuriant			
Escherichia coli (25922)		Good-Luxuriant			
Leuconostoc mesenteroides (8293)		Good-Luxuriant			
Enterococcus faecalis (29212)		Good-Luxuriant			
Precautions :					
1. For Laboratory Use.					
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 encountered that fail to grow or grow poorly on this medium.					
Use :					
For examination of butter as per International Dairy Federation.					
Storage :					
Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.					
Packing :					
500 gm. bottle					
Product profile:					
	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B143	34g/l	14.705L	7.6 ± 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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