

TECHNICAL SHEET

B1085	LEES AGAR				
Formula					
Ingredients :		gms/lit.			
Casein enzymic hydrolysate		10.00			
Yeast extract		10.00			
Lactose		5.00			
Sucrose		5.00			
Calcium carbonate		3.00			
Dipotassium phosphate		0.50			
Bromocresol purple		0.02			
Agar		18.00			
Final pH (at 25°C) : 7.0± 0.2					
Directions :					
Suspend 51.52 grams in 1000 ml distilled water. Heat just to boiling and sterilize by autoclaving at 15 lbs pressure (121°C) for 20 minutes. While dispensing, mix carefully to suspend calcium carbonate evenly. Pour into sterile Petri plates to obtain 4-5 mm thick gel.					
Principle :					
Casein enzymic hydrolysate and yeast extract provide the essential nitrogenous nutrients to the yoghurt starter bacteria. Lactose and sucrose are the fermentable carbohydrates. Calcium carbonate along with dipotassium phosphate is added to buffer the medium and avoid the drastic drop in pH due to lactic acid formation. Bromocresol purple is the pH indicator, which turns yellow in acidic condition and imparts yellow colour to the colony. It is recommended to dry the media plates for 18-24 hours prior to use.					
QC Tests – (I) Dehydrated Medium					
Colour :		Light yellow to light grey			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.0 ± 0.2			
Colour (post autoclaving/heating) :		Purple			
Clarity (post autoclaving/heating) :		Opaque gel			
(III) Q.C. Test Microbiological					
Cultural characteristics observed in presence of Carbon dioxide (CO ₂), after an incubation at 35-37°C for 48 hours.					
	MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY		
	Lactobacillus bulgaricus(11842)	Luxuriant	White		
	Streptococcus thermophilus(11485)	Luxuriant	yellow		
Precautions :	<ol style="list-style-type: none"> For Laboratory Use. 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 :	It is used for differential enumerations of yoghurt starter bacteria (Lactobacillus bulgaricus and Streptococcus thermophilus).				
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
B1085	51.52 g/l	9.70lit	7.0 ± 0.2	Nil	121°C/15 min

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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