

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1201	LEES MULTIDIFFERENTIAL AGAR					
Formula						
Ingredients :			gms/lit.			
Tomato Juice broth			41.00			
Peptonized milk			20.00			
Calcium pantothenate			2.00			
Citric acid			1.10			
Calcium carbonate			5.00			
Polysorbate 80			0.50			
Bromo cresol green			0.022			
Cycloheximide			0.007			
Agar			15.00			
Final pH (at 25°C) : 5.5 ± 0.2						
Directions :						
Suspend 84.63 grams in 1000 ml distilled water. Heat the medium just to boiling. Sterilize by autoclaving at 15 lbs pressure (121°C) for 10 minutes. AVOID OVERHEATING. Stir the medium while dispensing to prevent settling of calcium carbonate.						
Principle :						
Tomato juice broth which provides nutrients and acid environment for the growth of acidophilic bacteria. Peptonized milk provides lactose as an energy source. The low pH of the medium inhibits bacteria other than acidophilic bacteria. Polysorbate 80 serves as a source of fatty acids. Bromo cresol green acts as a pH indicator. Acid producing bacteria produce a clear yellow halo around the colonies. Other bacteria produce colonies in colours ranging from colourless to yellow green and blue depending on species and strain.						
QC Tests – (I) Dehydrated Medium						
Colour :		Ligth yellow to light green				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		5.5 ± 0.2				
Colour (post autoclaving/heating) :		Green to light blue				
Clarity (post autoclaving/heating) :		Opaque gel				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after an incubation at 25-30°C for 48-72 hours.						
MICROORGANISM (ATCC)			GROWTH			
Acinetobacter calcoaceticus (23055)			None-poor			
Lactobacillus acidophilus (4356)			luxuriant with clear yellow halo			
Lactobacillus fermentum (9338)			luxuriant with clear yellow halo			
Lactobacillus leichmannii (4797)			luxuriant with clear yellow halo			
Lactobacillus plantarum(8014)			luxuriant with clear yellow halo			
Proteus vulgaris (13315)			inhibited			
Precautions :		1. For Laboratory Use.				
		2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
		3. Cycloheximide is very toxic. Avoid skin contact or aerosol formation and inhalation.				
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 in the brewing industry for the cultivation and identification of brewing bacteria including fastidious type.				
Storage :		Dehydrated medium and prepared medium – Between 2 to 8°C.				
Packing :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1201	84.63 g/l	5.908 lit	5.5 ± 0.2	Nil	121°C/10 min	