

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B588	LITMUS LACTOSE AGAR					
Formula						
Ingredients :		gms/lit.				
Meat peptone		5.00				
Meatextract#		3.00				
Lactose	10.00					
Litmus		1.00				
Agar		10.00				
#- Equivalent to Beef extract						
Final pH (at 25°C) : 7.0 ± 0.2						
Directions :						
Suspend 29 gms. in 1000ml. distilled water. Heat to boiling to dissolve the medium completely. Dispense as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
Principle :						
Meat peptone and beef extract provide nitrogenous nutrients to the organisms. Lactose is fermented by lactose fermenting bacteria with acid production. Litmus is the pH indicator which turns red at acidic pH. Colonies of the lactose fermenting bacteria are surrounded by a red zone which distinguishes them from colonies of other organisms that either do not change the surrounding medium or make it blue due to production of ammonia.						
QC Tests – (I) Dehydrated Medium						
Colour :		Light purple				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.0 ± 0.2				
Colour (post autoclaving/heating) :		Dark purple				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18 –24 hrs.at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH		COLOUR OF COLONY		
Escherichia coli (25922)		Luxuriant		Red		
Salmonella typhi (6539)		Luxuriant		Deep blue - violet		
Pseudomonas aeruginosa (27853)		Luxuriant		Deep blue - violet		
Shigella flexneri (12022)		Luxuriant		Deep blue - violet		
Klebsiella pneumoniae (13883)		Luxuriant		Red		
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 differentiation of lactose fermenting and lactose nonfermenting microorganisms.						
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
B588	29 g/l	17.24 lit		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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