

TECHNICAL SHEET

B589	LITMUS LACTOSE BILE SALT AGAR (LLBSA)				
Formula					
Ingredients :		gms/lit.			
Peptone		20.00			
Sodium taurocholate		5.00			
Meat extract B #		5.00			
Sodium chloride		5.00			
Lactose		20.00			
Litmus		0.50			
Agar		15.00			
# Equivalent to Beef extract					
Final pH (at 25°C) : 7.4 ± 0.2					
Directions :					
Suspend 70.5 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. Cool to 45-50°C. Mix well and pour into sterile Petri plates.					
Principle :					
Medium contains sodium taurocholate, which inhibits the growth of gram-positive microorganisms. Lactose is the fermentable sugar utilized by coliform enteric bacteria leading to production of acid. Peptone and meat extract B supply the essential nutrients like nitrogen compounds for the growth of enteric bacteria. Sodium chloride maintains the osmotic balance of the medium.					
QC Tests - (I) Dehydrated Medium					
Colour :		Light purple to greyish yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.4 ± 0.2			
Colour (post autoclaving/heating) :		Light purple			
Clarity (post autoclaving/heating) :		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)		good-luxuriant	red		
Salmonella Typhi (6539)		good-luxuriant	deep blue to violet		
Pseudomonas aeruginosa (27853)		good-luxuriant			
Staphylococcus aureus (25923)		None-poor			
Proteus mirabilis (25923)		good-luxuriant	blue to violet		
Enterococcus faecalis (29212)		None-poor			
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 :	It is used for selective isolation of enteric bacteria on the basis of lactose fermentation.				
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
B589	70.5 g/l	7.09lit	7.4 ± 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 BIOMARKLABORATORIES publications.

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