

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B700	MILLER LURIA BERTANI AGAR					
Formula						
Ingredients :			gms/lit.			
Casein enzymic hydrolysate			10.00			
Yeast extract			5.00			
Sodium chloride			10.00			
Agar			15.00			
Final pH (at 25°C) :			7.5 ± 0.2			
Directions :						
Suspend 40 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. Dispense as desired. Mix well and pour into sterile Petri plates.						
Principle :						
Casein enzymic hydrolysate provides peptides and peptones while Vitamin B complex is provided by yeast extract. Sodium chloride provides sodium ions for membrane transport and also maintains the osmotic equilibrium of the medium.						
QC Tests - (I) Dehydrated Medium						
Colour :			Cream to light yellow			
Appearance :			Homogeneous Free Flowing powder			
(II) Rehydrated medium						
pH (post autoclaving/heating) :			7.5 ± 0.2			
Colour (post autoclaving/heating) :			Yellow to amber			
Clarity (post autoclaving/heating) :			Clear to slightly opalescent			
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18 - 24 hours at 35-37°C.						
MICROORGANISM (ATCC)			GROWTH			
Escherichia coli (25922)			Luxuriant			
Escherichia coli (23724)			Luxuriant			
Escherichia coli DH5 alpha MTCC 1652			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 the cultivation and maintenance of recombinant strains of Escherichia coli for genetic and molecular studies, can be used for routine cultivation and isolation of not particularly fastidious 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
B700		40g/l	12.5 lit	7.5 ± 0.2	Nil	121°C/15 min