

TECHNICAL SHEET

B880	LYSINE LACTOSE BROTH				
Formula					
Ingredients :					
		gms/lit.			
Pancreatic digest of animal tissue		5.00			
Yeast extract		3.00			
Dextrose		1.00			
L-lysine		5.00			
Lactose		10.00			
Bromo cresol purple		0.02			
Final pH (at 25°C) : 6.8 ± 0.2					
Directions :					
Suspend 24 gms.in 1000ml. distilled water. Heat if necessary to dissolve the medium completely. Dispense in tubes in 5 ml amounts and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.					
Principle :					
Gelatin peptone and yeast extract provide nitrogenous and carbonaceous nutrients. Dextrose and lactose are the fermentable sugars. L-Lysine is the substrate which is decarboxylated due to decarboxylase enzyme activity. Bromo cresol purple acts as pH indicator.					
QC Tests - (I)Dehydrated Medium					
Colour :		Greenish yellow			
Appearance :		Homogeneous Free Flowing powder			
(II)Rehydrated medium					
pH (post autoclaving/heating) :		6.8 ± 0.2			
Colour (post autoclaving/heating) :		Purple			
Clarity (post autoclaving/heating) :		Clear			
(III)Q.C. Test Microbiological					
Cultural characteristics observed after 24 hrs.at 35-37°C.					
MICROORGANISM (ATCC)		COLOUR OF MEDIUM	LACTOSE FERMENTATION	LYSINE DE-CARBOXYLATION	
Escherichia coli (25922)		Yellow	+	-	
Salmonella enteritidis (13076)		Blue	-	+	
Salmonella typhimurium (14028)		Blue	-	+	
Proteus vulgaris (13315)		Green	-	(+)	
Serratia marcescens (8100)		Blue	-	+	
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 determination of lysine decarboxylase activity of lactose nonfermenting members of Enterobacteriaceae especially Salmonellae.				
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
B880	24 g/l	20.83 lit	6.8 ± 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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