

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B220	LAURYL TRYPTOSE BROTH (LAURYL SULPHATE BROTH)					
Formula						
Ingredients :		gms/lit.				
Tryptose		20.00				
Lactose		5.00				
Sodium chloride		5.00				
Dipotassium phosphate		2.75				
Monopotassium phosphate		2.75				
Sodium lauryl sulphate		0.10				
Final pH (at 25°C) : 6.8 ± 0.2						
Directions :						
Suspend 35.6 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Distribute into tubes containing inverted Durhams tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. For inoculum of 1 ml or less, use single strength medium. For inocula of 10 ml or more, double strength or proportionate medium should be prepared.						
Principle :						
Tryptose provides essential growth substances, such as nitrogen and carbon compounds, sulphate and trace ingredients. The potassium phosphates provide buffering system, while sodium chloride maintains osmotic equilibrium. Sodium lauryl sulphate inhibits organisms other than coliforms. Lactose is the fermentable carbohydrate for coliforms.						
QC Tests – (I) Dehydrated Medium						
	Colour :	Cream to light yellow				
	Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium						
	pH (post autoclaving/heating) :	6.8 ± 0.2				
	Colour (post autoclaving/heating) :	Light amber to light yellow				
	Clarity (post autoclaving/heating) :	Clear				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18- 24 hours at 35-37°C.						
	MICROORGANISM (ATCC)	GROWTH	GAS PRODUCTION	INDOLE (44°C)		
	Enterobacter aerogenes (13048)	Luxuriant	+	negative reaction, no colour development / cloudy ring		
	Escherichia coli (25922)	Luxuriant	+	positive reaction, red ring at the interface of the medium		
	Salmonella typhimurium (14028)	Luxuriant	-	negative reaction, no colour development / cloudy ring		
	Staphylococcus aureus (25923)	Inhibited	-	-		
	Enterococcus faecalis (29212)	Inhibited	-	-		
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 detection and enumeration of coliform bacteria in water, wastewater, dairy products and other foods.				
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
B220		35.6 g/l	14.04 L	6.8 ± 0.2	NIL	121°C/15 MIN