

**TECHNICAL SHEET**

<b>B1429</b>	<b>TRYPTOSE LAURYL SULPHATE BROTH</b>					
<b>Formula</b>						
<b>Ingredients:</b>			<b>gms/lit.</b>			
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						
<b>Directions:</b>						
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.						
<b>Principle:</b>						
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						
<b>QC Tests - (I) Dehydrated Medium</b>						
Colour:			Cream to yellow			
Appearance:			Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :			6.8 ± 0.2			
Colour (post autoclaving/heating):			Light yellow			
Clarity (post autoclaving/heating):			Clear solution without any precipitate.			
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.						
MICROORGANISM (ATCC)		GROWTH	GAS PRODUCTION	INDOLE PRODUCTION (44°C)		
Escherichia coli (25922)		luxuriant	positive reaction	positive reaction, red ring at the interface of the medium		
Enterobacter aerogenes (13048)		luxuriant	positive reaction	negative reaction, no colour development		
Enterococcus faecalis (29212)		inhibited	--	--		
Salmonella Typhimurium (14028)			negative reaction	negative reaction, no colour development		
Staphylococcus aureus (25923)		inhibited	--	--		
<b>Precautions :</b>		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use:</b>		It is used for the detection of coliforms in water, wastewater, dairy products and other food samples. Recommended by International Organization for Standardization (ISO), 1991, Draft ISO/DIS 4831.				
<b>Storage:</b>		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing:</b>		500 gm. bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B1429</b>	35.6 g/l		14.044 L	6.8 ± 0.2	Nil	121°C / 15 minutes

**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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