TECHNICAL SHEET

B1429	**TRYPTOSE 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

QC Tests – (I)Dehydrated Medium		
	Colour:	Cream to yellow
	Appearance:	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	6.8 ± 0.2
	Colour (post autoclaving/heating):	Light yellow
	Clarity (post autoclaving/heating):	Clear solution without any precipitate.
(III)Q.C. Test Microbiological		
	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	--	--

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 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.
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
B1429	35.6 g/l	14.044 L	6.8 ± 0.2	Nil	121^0C / 15 minutes

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