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TECHNICAL SHEET

B182		EIJKMAN LACTOSE BROTH						
Formula								
Ingredients : gms/				lit.				
Tryptose								
Lactose 3.00								
Dipotassium phosphate 4.00								
Monopota	ssium ph	osphate						
Sodium chloride 5.00								
Final pH (at 25°C) : 6.8 <u>+</u> 0.2								
Directions :								
Suspend 28.5 grams in 1000 ml distilled water. For examination of 10 ml portions of water samples, use								
57 grams per 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Dispense into								
tubes with inverted Durham's fermentation tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for								
15 minutes.								
Principle :								
Eijkman described a method for separating the strains of E. coli from the feces of warm blooded and cold-								
blooded animals. This method had limitation due to the inability to obtain growth after sub culturing from								
positive tubes incubated at 46°C, as acidity and high temperature results in death of the culture within 24-								
48 hours. Perry and Hajna modified Eijkman's original method by decreasing carbohydrate content and								
adding a phosphate buffer enabling to subculture E.coli after incubation at 46°C for 96 hours or longer								
where pH was 5.6 unlike 4.5 of Eijkman medium. Perry modified Eijkman medium using lactose for								
Isolation of E.coli. This medium can also be used for water filtration control work.								
iryptose and lactose in the medium are the energy and the carbon sources respectively. E. coli ferment								
actose to form acid and gas. The gas produced gets trapped in the form of gas bubbles in the inverted								
Durnam's tubes. Phosphates buffer the medium whereas sodium chloride helps to maintain the osmotic								
	quindhum of the medium.							
QC Tests -	Colour :			Cream to vellow				
				Hemogeneous Free Flowing, powder				
Appearance : (II) Robudrated medium			nonogeneous riee riowing powder					
		ving (heating)						
		itodaying (boating) :		0.0 ± 0.2				
Clority (post al		itoclaving/neating):						
	(post at		ig):					
Cultural abaracteristics abaam and often an insubation at 45 5 to 4600 for 24 40 baura								
		(ATCC)	u alter all	Incubation				urs.
Fachorichia col		(25022)			GROWII	,+ I	GAS	
Escher	Esterobactor acrogonac (12049)				Luxuriai	IL	+	
Enterobacter aerogenes (13048)					P001		-	
Precautio	ons:	1. FUL LADUI ALULY USE.						
		infections materials						
Limitations :		Infectious materials.						
		1. Since the nutritional requirements of organisms vary, some strains may be						
		Encountered that fail to grow or grow poorly off this medium.						
		For detection and differentiation of Escherichia coll from other collforms on the basis of						
Storage :		Dobydrated medium, below 30°C Propared medium, Retween 2 to 8°C						
Dacking :		500 am bottlo						
Product profile		Boconstitution	o gin. Doule			H (25°C) Supplement Starilization		
Frouuct prome:		Reconstitution	Qualitity 0	(E00a)	рп (25°C)	SU	appientent	Stermzation
D107		20 Ea/I	17	n (500g)	60100	NU		1210C / 1E minutes
D102		20.59/1	1/	J+L	0.0 ± 0.2			121-C/13 minutes

Refer disclaimer Overleaf

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