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## **TECHNICAL SHEET**

B1018I	EC BROTH		
Formula			
Ingredients:		gms/lit.	
Tryptose		20.00	
Lactose		5.00	
Bile Salts mixture		1.50	
Dipotassium phosphate		4.00	
Potassium dihydrogen phosphate		1.50	
Sodium chloride		5.00	
Final pH (at 25°C):		6.8 <u>+</u> 0.2	
Directions :	•		
C	a in 1000 mal di		this processors to discolve the mondiage Commistaly

Suspend 37 gms. in 1000 ml. distilled water. Heat if necessary to dissolve the medium Completely. Dispense in test tubes containing inverted Durham's tube. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Adjust the concentration of medium in accordance with sample size.

## **Principle:**

Tryptose provide the nitrogen, vitamins and amino acids in EC Medium. Lactose is the carbon source. Bile Salts is the selective agent against gram positive bacteria, particularly bacilli and fecal streptococci Dipotassium Phosphate and Monopotassium Phosphate are the buffering agents. Sodium Chloride maintains the osmotic balance of the medium.

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QC Tests - (I)Dehydrated Medium									
Colour:			Cream to yellow						
Appearance :			Homogeneous Free Flowing powder						
(II)Rehydrated medium									
pH (post autoclaving/heating):			$6.8 \pm 0.2$						
Colour (post autoclaving/heating):			Light yellow to yellow						
7 (1 5) 57			Clear						
(III)Q.C. Test Microbiological									
Cultural charac	teristics observe	d after 2	4 hrs. at 44.	.5°C ± 0.2.					
MICROORGANISM (ATCC )				GROWTH	GROWTH				
Escherichia coli		Luxuriant	Luxuriant						
Klebsiella pneu		Luxuriant	Luxuriant						
Pseudomonas a		Fair to good		-					
Enterobacter aerogenes (13048)				Inhibited		-			
Enterococcus faecalis (29212)				Inhibited	Inhibited				
Bacillus subtilis		Inhibited	Inhibited -						
Precautions :	1. For Laborato								
2. Follow proper, esta infectious materials.			ablished laboratory procedures in handling and disposing of						
Limitations :	encountered that fail to grow or grow poorly on this medium.								
2. False – negative reactions in recovering coliforms from water supplies can or									
	to low pH, refrigeration and use of bactericidal or bacteriostatic agents.								
Use :	For selective enumeration of presumptive Escherichia coli by MPN technique.								
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.								
Packing:	500 gm bottle								
Product profile:	Reconstitution			pH (25°C)	Sup	oplement	Sterilization		
			ion (500g)						
B1018I	37g/l	1	3.51L	$6.8 \pm 0.2$	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 BIOMARKLABORATORIES publications.

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