

TECHNICAL SHEET

B1430	EC BROTH					
Formula						
Ingredients :			gms/lit.			
Tryptone			20.00			
Lactose			5.00			
Bile Salt No.3			1.50			
Dipotassium Hydrogen phosphate			4.00			
Potassium Dihydrogen phosphate			1.50			
Sodium chloride			5.00			
Final pH (at 25°C) : 6.9 ± 0.2						
Directions :						
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 :						
Tryptone 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. EC Broth should not be used for the direct isolation of coliforms since prior enrichment in a presumptive medium for optimal recovery of faecal coliforms is required.						
QC Tests – (I)Dehydrated Medium						
Colour :			Cream to yellow			
Appearance :			Homogeneous Free Flowing powder			
(II)Rehydrated medium						
pH (post autoclaving/heating) :			6.9 ± 0.2			
Colour (post autoclaving/heating) :			Light yellow to yellow			
Clarity (post autoclaving/heating) :			Clear			
(III)Q.C. Test Microbiological						
Cultural characteristics observed after 24 hrs. at 44.5°C ± 0.2.						
MICROORGANISM (ATCC)		GROWTH	GAS			
Escherichia coli (25922)		Luxuriant	+			
Klebsiella pneumoniae (13883)		Luxuriant	+			
Pseudomonas aeruginosa (27853)		Fair to good	-			
Enterobacter aerogenes (13048)		Inhibited	-			
Enterococcus faecalis (29212)		Inhibited	-			
Bacillus subtilis (6633)		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.				
		2. False – negative reactions in recovering coliforms from water supplies can occur due to low pH, refrigeration and use of bactericidal or bacteriostatic agents.				
Use :		For selective enumeration of faecal and non-faecal colifroms in water, wastewater and shell fish by MPN technique. It is recommended by ISO 7251.				
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
		B1430	37g/l	13.51L	6.9 ± 0.2	Nil

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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