

**TECHNICAL SHEET**

<b>B177</b>	<b>EC BROTH</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Tryptone		20.00			
Lactose		5.00			
Bile Salt mixture		1.50			
Dipotassium phosphate		4.00			
Monopotassium phosphate		1.50			
Sodium chloride		5.00			
Final pH (at 25°C) :		6.9 ± 0.2			
<b>Directions :</b>					
Suspend 37 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Dispense in test tubes containing inverted Durhams tube. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Adjust the concentration of medium in accordance with sample size.					
<b>Principle :</b>					
Tryptone provides nitrogenous and carbonaceous compounds, long chain amino acids and other essential growth nutrients. Lactose is the fermentable sugar. Bile salts mixture inhibit gram-positive bacteria especially bacilli and faecal Streptococci. Phosphates control the pH during fermentation of lactose. Gas production in a fermentation tube within 24 hour or less is a presumptive evidence of the presence of coliform bacteria.					
<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) :	6.9 ± 0.2			
	Colour (post autoclaving/heating) :	Light yellow to yellow			
	Clarity (post autoclaving/heating) :	Clear			
<b>(III)Q.C. Test Microbiological</b>					
	Cultural characteristics observed after an incubation at 44.5°C ± 0.2 for 24 hours.				
	MICROORGANISM (ATCC )	GROWTH	GAS		
	Escherichia coli (25922)	Good-luxuriant	+		
	Klebsiella pneumoniae (13883 )	Good-luxuriant	+		
	Pseudomonas aeruginosa (27853)	Fair to good	-		
	Enterobacter aerogenes (13048)	Inhibited	-		
	Enterococcus faecalis (29212)	Inhibited	-		
	Bacillus subtilis (6633)	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. 2. Morphological, biochemical and/or serological tests should be performed for final identification.				
<b>Use :</b>	For selective enumeration of faecal and non-faecal coliforms in water, wastewater and shell fish by MPN technique.				
<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>B177</b>	37g/l	13.51L	6.9 ± 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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