# **BIOMARK Laboratories-INDIA**

# www.biomarklabs.com

# **TECHNICAL SHEET**

B1430 EC broth(E.Coli broth)							
Formula							
Ingredients:			gms/lit.				
Tryptone 20.00							
Lactose			5.00				
Bile Salt No.3	1.						
Dipotassium Hydro	4.00						
Potassium Dihydro	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			Tomogeneous Free Floring portue				
pH (post autoclaving/heating) : $6.9 \pm 0.2$							
			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.							
-	+ 1115. at ++.	GROWTH	GAS				
MICROORGANISM (ATCC )							
Escherichia coli (25922)				Luxuriant Luxuriant	+		
Klebsiella pneumoniae (13883)					+		
Pseudomonas aeruginosa (27853)				Fair to good	-		
Enterobacter aerogenes (13048)				Inhibited			
Enterococcus faecalis (29212)				Inhibited	-		
Bacillus subtilis (6633) Inhibited -							
Precautions: 1. For Laboratory Use.							
		. 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.						
<b>Use:</b> For selective enumeration of faecal and non-faecalcolifroms in water, wastewater and							
shell fish by MPN technique. It is recommended by ISO 7251.						202	
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
Packing: 500 gm bottle							
Product profile:		Quantity Preparati	on ion (500g)	pH (25°C)	Supplement	Sterilization	
B1430	37g/l	13	3.51L	6.9 ± 0.2	Nil	121°C / 15 minutes	

Page 01 of 02

Rev: December 2020

# BIOMARK Laboratories-INDIA www.biomarklabs.com

## **TECHNICAL SHEET**

### Refer disclaimer Overleaf

### 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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

Page 02 of 02

Page 01 of 02

Rev: December 2020