

TECHNICAL SHEET

B644	MODIFIED EC BROTH BASE					
Formula						
Ingredients:		gms/lit.				
Peptic digest of animal tissue		20.00				
Sodium chloride		5.00				
Lactose		5.00				
Bile salts mixture		1.12				
Dipotassium hydrogen phosphate		4.00				
Potassium dihydrogen phosphate		1.50				
Final pH (at 25°C) : 6.9 ± 0.2						
Directions :						
Suspend 18.31 grams in 500 ml. distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45 – 50°C and aseptically add rehydrated contents of 2 vials of Novobiocin Supplement(BF083) . Mix well and dispense as desired.						
Principle :						
Peptic digest of animal tissue serves as a rich source of nitrogen, vitamins and amino acids. Lactose provides the carbon source for lactose fermenting microorganisms. The addition of bile salts mixture inhibits the growth of gram positive bacteria particularly bacilli and faecal streptococci. Sodium chloride maintains the osmotic balance of the medium.Potassium salts buffers the medium.The addition of novobiocin inhibits gram positive bacteria.						
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 amber				
Clarity (post autoclaving/heating) :		clear				
(III)Q.C. Test Microbiological						
Cultural characteristics observed with added Novobiocin Supplement (BF083) after an incubation at 35-37°C for 18-24 hours.						
MICROORGANISM (ATCC)		GROWTH				
Escherichia coli O157:H7		luxuriant				
Escherichia coli (25922)		luxuriant				
Enterococcus faecalis (29212)		inhibited				
Staphylococcus aureus (25923)		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.				
Use :		It is used for the isolation of Escherichia coli O157:H7 .				
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
B644		36.02 g/l	13.881 L	6.9 ± 0.2	Novobiocin Supplement (BF083)	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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