

TECHNICAL SHEET

B877	M-EMB BROTH				
Formula					
Ingredients :		gms/lit.			
Protease peptone		40.00			
Yeast extract		6.00			
Lactose		20.00			
Bile salt mixture		1.00			
Sodium chloride		5.00			
Dipotassium phosphate		7.00			
Eosin - Y		4.00			
Methylene blue		1.33			
Final pH (at 25°C) : 7.2 ± 0.2					
Directions :					
Suspend 84.33 gms. in 1000ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Autoclave sterilization is not required if the medium is to be used on the same day of preparation.					
Principle :					
The medium contains two pH indicators viz. Eosin and methylene blue which are the aniline dyes. These two dyes combined to form a precipitate at an acid pH. Eosin acts both as an indicator and inhibitor. Coliform organisms which ferment the lactose produce acid and their colonies thus absorb eosin and methylene blue and form blue-black colonies. Bile salts inhibit many gram -positive organisms. Protease peptone and yeast extract supply the nitrogenous nutrients to the organisms. Sodium chloride maintains the osmotic balance while dipotassium phosphate buffers the medium.					
QC Tests - (I) Dehydrated Medium					
Colour :		Pinkish purple			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.2 ± 0.2			
Colour (post autoclaving/heating) :		Green coloured with orange cast			
Clarity (post autoclaving/heating) :		Opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 18 -24 hrs.at 35-37°C.					
MICROORGANISM (ATCC)		GROWTH	COLOUR OF COLONY		
Escherichia coli (25922)		Luxuriant	Purple with black centre		
Proteus mirabilis (25933)		Luxuriant	Colourless		
Salmonella typhi (1539)		Luxuriant	Colourless		
Klebsiella pneumoniae (13883)		Good	Green metallic sheen, dark centre		
Enterobacter aerogenes (13048)		Good	Pink, no sheen		
Staphylococcus aureus (25923)		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 :					
For the detection of members of the coliform group by the membrane filter technique.					
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	
B877	84.33g/l	5.92L	7.2 ± 0.2	nil	121°C / 15 minutes

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.

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