

TECHNICAL SHEET

B1100	M-FC BROTH BASE				
Formula					
Ingredients:gms/lit.					
Tryptose		10.00			
Proteose peptone	5.00				
Yeast extract	3.00				
Lactose		12.50			
Bile salts mixture	1.50				
Sodium chloride	5.00				
Aniline blue	0.10				
Final pH (at 25°C) : 7.4 ± 0.2					
Directions :					
Suspend 37.1 grams in 1000 ml distilled water containing 10 ml 1% Rosolic Acid (BF078). Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 45°C and add 2 ml of M-FC Broth on sterile absorbent pad placed in a sterile Petri plate					
Principle :					
Proteose peptone, tryptose and yeast extract provide necessary nutrients for the growth of faecal coliforms. Lactose is the carbon source as well as fermentable carbohydrate in the medium. Bile salts inhibit the growth of contaminating gram-positive microorganisms. Aniline blue is a triphenyl methane dye which suppresses the growth of many gram-positive microorganisms. Aniline blue along with rosolic acid forms the indicator system of the medium.					
QC Tests – (I)Dehydrated Medium					
Colour :	Light yellow to bluish grey				
Appearance :	Homogeneous Free Flowing powder				
(II)Rehydrated medium					
pH (post autoclaving/heating) :	7.4 ± 0.2				
Colour (post autoclaving/heating) :	With addition of rosolic acid –orange red				
Clarity (post autoclaving/heating) :	Clear to slightly opalescent				
(III) Q.C. Test Microbiological					
Cultural characteristics observed with added Rosolic acid (BF078) after an incubation at different temperatures for 22-24 hours.					
MICROORGANISM (ATCC)	GROWTH AT 35-37°C	GROWTH AT 45.5°C	COLOUR OF COLONY ON MEMBRANE FILTER		
Escherichia coli (25922)	Luxuriant	Luxuriant	Light blue		
Salmonella typhimurium (14028)	Luxuriant	Inhibited	Pinkish		
Shigella flexneri (12022)	Luxuriant	Inhibited	Pinkish		
Enterococcus faecalis (29212)	Inhibited	Inhibited	--		
Precautions :	<ol style="list-style-type: none"> 1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. 3. IRRITANT. Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. 				
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 detection and enumeration of faecal coliforms by membrane filter technique at higher temperature(44.5°C)				
Storage :	Dehydrated medium- below 30°C Prepared medium– Use freshly prepared medium.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1100	37.1g/l	13.47L	7.4 ± 0.2	1% Rosolic Acid (BF078)	DO NOT AUTOCLAVE

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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