

**TECHNICAL SHEET**

<b>B871</b>	<b>M-FC AGAR BASE</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
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				
Agar		15.00				
Final pH (at 25°C) : 7.4 ± 0.2						
<b>Directions :</b>						
Suspend 52.1 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 pour into sterile Petri plates.						
<b>Principle :</b>						
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. Agar is the solidifying agent.						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour :		Light yellow to greyish yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.4 ± 0.2				
Colour (post autoclaving/heating) :		With addition of rosolic acid –orange red				
Clarity (post autoclaving/heating) :		Slightly opalescent				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed with added 1% 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	--		
<b>Precautions :</b>		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.				
<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.				
<b>Use :</b>		For detection and enumeration of faecal coliforms using membrane filter technique at higher temperature (44.5°C)				
<b>Storage :</b>		Dehydrated medium- below 30°C Prepared medium– Use freshly prepared medium.				
<b>Packing :</b>		500 gm. bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B871</b>		52.1g/l	9.59L	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 BIOMARK LABORATORIES publications.

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