

TECHNICAL SHEET

B872	M-ENTEROCOCCUS AGAR BASE, MODIFIED				
Formula					
Ingredients :		gms/lit.			
Pancreatic digest of gelatin		10.00			
Yeast extract		30.00			
Sodium chloride		15.00			
Esculin		1.00			
Sodium azide		0.15			
Cycloheximide		0.05			
Nalidixic acid		0.25			
Agar		15.00			
Final pH (at 25°C) : 7.1 ± 0.2					
Directions :					
Suspend 71.4 gms. in 1000ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 45°C and aseptically add 15ml of sterile 1% TTC Solution. Mix well and pour into sterile petri plates.					
Principle :					
This medium contains gelatin peptone and yeast extract which provide the carbonaceous and nitrogenous nutrients, minerals, vitamins and other growth factors. Sodium chloride maintains isotonic conditions of the medium beside the provision of essential ions to variety of organisms. Sodium azide, Cycloheximide and Nalidixic acid inhibit large number of bacteria and fungi and thus makes the medium selective. Esculin is hydrolyzed by bacterial enzyme to esculetin and dextrose. TTC is reduced by Enterococci to insoluble formazan, a red coloured complex inside the bacterial cell resulting in pink to red coloured colonies.					
QC Tests – (I) Dehydrated Medium					
Colour :		Yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.1 ± 0.2			
Colour (post autoclaving/heating) :		Yellow			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 48 hrs. at 42°C on M-Enterococcus Agar, Modified and 20 minutes at 42°C on Esculin Iron Agar.					
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY	ESCULIN HYDROLYSIS		
Enterococcus faecalis (29212)	Good - luxuriant	Pink to red	+		
Escherichia coli (25922)	Inhibited	-	-		
Key: + = black to brown precipitate on the underside of membrane filter under individual colony.					
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 recovery of Enterococci in water samples using membrane filter technique alongwith Esculin Iron Agar for the identification.					
Storage :					
Dehydrated medium-Between 2-8°C Prepared medium- Freshly prepared.					
Packing :					
500 gm bottle					
Product profile:					
Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization	
B872	71.4 g/l	7.002L	7.1 ± 0.2	1% TTC Solution.	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 BIOMARK LABORATORIES publications.

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