

TECHNICAL SHEET

B874	M-ENDO BROTH MF (MF ENDO MEDIUM) (M-COLIFORM BROTH)	
Formula		
Ingredients :	gms/lit.	
Tryptose	10.00	
Casein enzymic hydrolysate	5.00	
Peptone, special	5.00	
Yeast extract	1.50	
Lactose	12.50	
Sodium deoxycholate	0.10	
Dipotassium phosphate	4.375	
Monopotassium phosphate	1.375	
Sodium chloride	5.00	
Sodium lauryl sulphate	0.05	
Sodium sulphite	2.10	
Basic fuchsin	1.05	
Final pH (at 25°C) : 7.2 ± 0.2		
Directions :		
Suspend 48.05 grams in 1000 ml distilled water containing 20 ml ethanol. Heat if necessary, to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to room temperature and dispense about 2 ml onto sterile absorbent pads. This medium should be used on the same day it is prepared and should be protected from bright light. Caution: Basic fuchsin is a potential carcinogen and care should be taken to avoid inhalation of the powdered dye and contamination of the skin.		
Principle :		
Casein enzymic hydrolysate, tryptose, peptone special and yeast extract provide essential nutrients especially nitrogenous for the coliforms. Lactose is the fermentable carbohydrate. Sodium sulphite, sodium deoxycholate and basic fuchsin inhibit the growth of gram-positive organisms. Phosphates buffer the medium. Coliforms ferment lactose and the resulting acetaldehyde reacts with sodium sulphite and basic fuchsin to form red colonies and similar colouration of the medium. Lactose nonfermenters form colourless colonies.		
QC Tests – (I) Dehydrated Medium		
Colour :	Light pink to purple	
Appearance :	Homogeneous Free Flowing powder	
(II) Rehydrated medium		
pH (post autoclaving/heating) :	7.2 ± 0.2	
Colour (post autoclaving/heating) :	Pinkish red	
Clarity (post autoclaving/heating) :	Opalescent	
(III) Q.C. Test Microbiological		
Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.		
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY
Escherichia coli (25922)	Good-luxuriant	Pink with metallic sheen
Enterobacter aerogenes (13048)	Good-luxuriant	pink to red (may have sheen)
Salmonella Typhi (6539)	Luxuriant	Colourless to very light pink
Salmonella typhimurium (14028)	Luxuriant	Colourless to very light pink
Staphylococcus aureus (25923)	Inhibited	--
Klebsiella pneumoniae (13883)	Good-luxuriant	pink to red
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. HARMFUL. Irritating to eyes, respiratory system and skin. Possible risk of irreversible effects. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. Target organ(s) : Liver, Thyroid. 	
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.	

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Use :	For the enumeration of coliform bacteria in water samples using one step membrane filter technique.				
Storage:	Dehydrated medium- below 30°C Prepared medium- Freshly prepared.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B874	48.05g/l	10.416L	7.2 ± 0.2	Ethanol	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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