B875	**M-ENDO BROTH**
Formula	
Ingredients :	**gms/lit.**
Peptic digest of animal tissue	20.00
Yeast extract	6.00
Lactose	25.00
Dipotassium phosphate	7.00
Basic fuchsin	1.00
Sodium sulphite	2.50
Final pH (at 25°C) : 7.5 ± 0.2	

Directions :

Suspend 61.5 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 5 minutes. Cool and use as required in membrane filtration technique. The medium should be used on the same day of its rehydration.
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 :

Peptic digest of animal tissue and yeast extract provide essential nutrients especially nitrogenous for the coliforms. Lactose is the fermentable carbohydrate. Sodium sulphite 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 non-fermenters 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) :		7.5 ± 0.2
	Colour (post autoclaving/heating) :		Pink to pinkish orange
	Clarity (post autoclaving/heating) :		Opalescent solution in tubes
(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(ON MEMBRANE FILTER)
	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 :	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.
Use :	For estimation of coliforms in water samples using membrane filter technique.
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
B875	61.5g/l	8.13L	7.5 ± 0.2	Nil	121^{0}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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