B1296	**M E AGAR**
Formula	
Ingredients :	**gms/lit.**
Peptone	10.00
Sodium chloride	15.00
Yeast extract	30.00
Esculin	1.00
Actidione	0.05
Sodium azide	0.15
Agar	15.00
Final pH (at 25°C) : Self	

Directions :

Suspend 71.2 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121° C) for 15 minutes.

Principle :

Peptone and Yeast extract provide essential nutrients Sodium chloride maintains osmotic equilibrium. Sodium azide inhibits growth of gram negative organisms and permits the growth of faecal Streptococci. Esculin hydrolyzers hydrolyze the glycoside esculin to esculetin and dextrose.
Following modifications make the medium more selective ;
1. Add 0.75 gm of indoxyl-β-D-glucoside to 1000ml of distilled water containing 71.2 gm of dehydrated Basal medium (M E Agar). Autoclave at 15lbs pressure (121°C) for 15 minutes.
2. Add 0.24 gm Nalidixic acid in 5ml sterile distilled water (Add a few drops of 0.1 N NaOH to dissolve if required) Add this solution to autoclaved medium.
3. Add 0.02 gm triphenyl tetrazolium chloride to the medium and mix.
The MEI Medium is similar to the ME Medium except that it contains a reduced amount of triphenyltetrazaolium chloride (TTC) and contains a substrate, indoxyl β-D-glucoside that turns blue when cleaved by an enzyme present in enterococci (β-glucosidase). All colonies with any bue halo are recorded as enterococci, regardless of colony color. Magnification with a dissecting microscope is used for counting to give maximum visibility of colonies. It gives faster results (within 24 hrs.) at 41°C instead of 48 hrs. at 37°C for ME Agar.

QC Tests – (I)Dehydrated Medium			
	Colour :	Cream to light yellow	
	Appearance :	Homogeneous Free Flowing powder	
(II)Rehydrated medium			
	pH (post autoclaving/heating) :	Self	
	Colour (post autoclaving/heating) :	Cream to yellow	
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent	
(III)Q.C. Test Microbiological			
	Cultural characteristics observed after 48 hrs at 35-37°C.		
	MICROORGANISM (ATCC)	RECOVERY	
	Enterococcus faecalis (29212)	Luxuriant	

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 isolation and enumeration of enterococci from potable, estuarine, marine and shellfish growing waters.
Storage :	Dehydrated medium- below 8°C Prepared medium – Between 2 to 8°C.
Packing :	500 gm. bottle

Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1296	71.2g/l	7.022L	Self	NIL	121^{0}C / 15 minutes

Refer Disclaimer overleaf

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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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