

# Enterococcosel Agar



Medium used for the isolation and identification of Enterococci.

\*Equally use with NIER (MB-E0644N), Bile Esculin Azide Agar (MB-B1001), Pfizer Selective Enterococcus Agar (MB-P1319) and Enterococci Agar.

## • CONTENTS (Liter)

Peptone C	17.0 g
Peptone B	3.0 g
Yeast Extract	5.0 g
Oxgall (Bile Bacteriological)	10.0 g
Sodium Chloride	5.0 g
Trisodium Citrate	1.0 g
Esculin	1.0 g
Ferric Ammonium Citrate	0.5 g
Sodium Azide	0.25 g
Agar	15.0 g
Final pH = 7.1 ± 0.2 at 25°C	

## • PROCEDURE

Suspend 57.75 G of powder in 1L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

## • INTERPRETATION

Enterococcosel Agar is a medium used for the isolation and identification of Enterococci. Peptone C, peptone B and yeast extract provide carbon, nitrogen, vitamins and minerals. Oxgall and trisodium citrate are used to inhibit Gram-positive bacteria other than Enterococci. Sodium chloride maintains the osmotic balance. Enterococci and group D streptococci hydrolyze esculin to esculetin and dextrose. Esculetin reacts with ferric ammonium citrate and forms a zone of black or dark brown precipitates around the colonies. Sodium azide inhibits Gram-negative microorganisms. Agar is the solidifying agent.

## • TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 36 ± 1°C for 24 ± 2 hours. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free flowing, homogeneous

Color: beige

### Prepared medium

Appearance : clear

Color: tan

Incubation conditions: 36 ± 1°C / 24 ± 2 hours

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Enterococcus faecalis</i>	29212	50 -100	good	blackening
<i>Escherichia coli</i>	25922	≥10 <sup>3</sup>	partially inhibited	-
<i>Streptococcus pyogenes</i>	19615	≥10 <sup>3</sup>	partially inhibited	-

## • STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

## • REFERENCES

1. Isenberg, H.D., D. Goldberg, and J. Sampson. (1970). Appl. Micro., 20, 433-436.
2. ISO/FDIS 7899-2: 2000. Water Quality – Detection and enumeration of intestinal enterococci.
3. NCCLS document M22-A2, 1996. Approved Standard.
4. Facklam, Sahm and Teixeira. 1999. In Murray, Baron, Pfaller, Tenover and Tenover (ed.), Manual of clinical microbiology, 7th ed. American Society for Microbiology, Washington, D.C.
5. Refer to the NIER.

## • PACKAGE

Cat. No : MB-E0644 Enterococcosel Agar	500 G
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