

# Enterococcosel Broth



Medium used for the isolation and identification of Enterococci.

\*Equally use with Bile Esculin Azide Broth (MB-B2125), Enterococci Broth and SE (Streptococcus Enrichment) Broth (MB-S0765).

## • CONTENTS (Liter)

Pancreatic Digest of Casein	17.0 g
Peptic Digest of Animal Tissue	3.0 g
Yeast Extract	5.0 g
Oxgall	10.0 g
Sodium Chloride	5.0 g
Esculin	1.0 g
Ferric Amonium Citrate	0.5 g
Sodium Citrate	1.0 g
Sodium Azide	0.25 g
Final pH = 7.1 ± 0.2 at 25°C	

## • PROCEDURE

Suspend 42.75 G in 1 L of distilled water and heat to boiling until completely dissolved. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into tubes.

## • INTERPRETATION

Enterococcosel Broth is a medium used for the isolation and identification of Enterococci. Pancreatic digest of casein, peptic digest of animal tissue and yeast extract provide nitrogen, carbon, amino acids, and vitamins. Oxgall and sodium 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 forms black or dark brown precipitates to the broth. Sodium azide inhibits Gram-negative bacteria.

## • TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 36 ± 1°C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige

### Prepared medium

Appearance: slightly opalescent with precipitates

Color: amber

Incubation conditions: 36 ± 1°C / 18 - 24 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. Murray, Baron, Jorgensen, Landry and Pfaller (ed.). 2007. Manual of clinical microbiology, 9th ed. American Society for Microbiology, Washington, D.C.
2. Rochaix. 1924. C.R. Soc. Biol. 90:771.
3. Meyer and Schonfeld. 1926. Zentralbl. Bakteriol. Parasitenk. Infektionskr. Hyg. Abt. Orig. 99:402.
4. Isenberg, Goldberg and Sampson, 1970, Appl. Microbiol., 20:433.
5. Facklam and Moody, 1970, Appl. Microbiol., 20:245.

## • PACKAGE

Cat. No : MB-E0651 Enterococcosel Broth	500 G
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