

VRE (Vancomycin Resistant Enterococci) Agar



Medium used for the isolation and cultivation of Vancomycin Resistant Enterococci.

• CONTENTS (Liter)

Tryptone	20.0 g
Yeast Extract	5.0 g
Sodium Chloride	5.0 g
Sodium Citrate	1.0 g
Esculin	1.0 g
Ferric Ammonium Citrate	0.5 g
Sodium Azide	0.15 g
Agar	15.0 g
Final pH = 7.0 ± 0.2 at 25°C	

• PROCEDURE

Suspend 47.65 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. Aseptically add 2 vials of VRE Agar supplement (MB-V0768). Mix well. Pour into petri dishes.

VRE Agar supplement

1 vial content (each vial is sufficient for 500mL of medium)
Vancomycin 0.003 g

• INTERPRETATION

VRE (Vancomycin Resistant Enterococci) Agar is a medium used for the isolation and cultivation of Vancomycin Resistant Enterococci. Tryptone and yeast extract provide nitrogen, carbon, vitamins and minerals. Sodium chloride maintains the osmotic balance. Sodium citrate is selective agent to inhibit some Gram-positive organisms. Esculin reacts with ammonium ferric citrate and forms a brown-black complex seen as a black halo. Sodium azide inhibits Gram-negative microorganisms. Agar is the solidifying agent. VRE agar supplement isolates Vancomycin Resistant Enterococci from other Enterococci.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 36 ± 1°C for 24 - 48 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: amber

Incubation conditions: $36 \pm 1^{\circ}\text{C}$ / 24 - 48 hours

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Enterococcus faecalis</i>	12201 (NCTC)	50 -100	good	esculin hydrolysis, blackening
<i>Enterococcus faecalis</i>	29212	$\geq 10^3$	inhibited	-
<i>Enterococcus faecium</i>	19434	$\geq 10^3$	inhibited	-
<i>Escherichia coli</i>	25922	$\geq 10^3$	inhibited	-
<i>Staphylococcus aureus</i>	25923	$\geq 10^3$	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 or until signs of deterioration are evident. Store prepared medium at 2 - 8°C.

• REFERENCES

1. CDC Preventing the apread of vancomycin resistance : a report from the Hospital Infection Control Practices Advisory Committee (1994). Fed Regist. May 17.
2. Mascini. EM, Bonten MJ: Vancomycin-resistant enterococci: consequences for therapy and infection control. Clin Microbiol Infect.2005,11 (Suppl.4) : 43-56

• PACKAGE

Cat. No : MB-V1581 VRE (Vancomycin Resistant Enterococci) Agar	500 G
---	-------