

Technical Data

HiCrome VRE Agar Base

M1830

HiCrome VRE Agar Base is recommended for identification of Vancomycin Resistant Enterococci from clinical specimens

Composition**	
Ingredients	Gms / Litre
Peptone special	25.000
Chromogenic mixture	0.450
Sodium chloride	5.000
Buffering agent	1.250
Salt mixture	4.250
Agar	15.000
Final pH (at 25°C)	6.5 ± 0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 50.95 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C)for 15 minutes. Cool to 45-50°C and aseptically add the rehydrated contents of two vials of HiCrome VRE Agar Supplement (FD277). Mix well and pour into sterile Petri plates.

Principle And Interpretation

Enterococci are the common habitants of the normal flora residing in the intestines of mammals (1). Vancomycin Resistant Enterococci are the group of Enterococci that have developed resistance towards many antibiotics particularly vancomycin. Enterococcal infections that result in human disease can be fatal, particularly those caused by strains of vancomycin-resistant enterococci (VRE) (2). Early detection of VRE is important to prevent the emergence of vancomycin resistant in *Enterococcus faecalis*.

VRE can be transmitted from person to person, especially in a hospital or chronic-care facility. Microscopic amounts of fecal material from an infected or colonized patient can contaminate the hospital environment and be a reason for the spread of infection. There are many traditional media for the detection of VRE which includes Vancomycin Resistant Enterococci Broth Base/ Agar or Bile Esculin Agar supplemented with vancomycin

Peptones in the medium supplies the necessary nutrients and vitamins required for the growth of microorganisms. Sodium chloride maintains the osmotic balance. Buffering agents provides buffering to the medium. *Enterococcus faecalis* cleaves the chromogenic substrate in the medium to produce blue coloured colonies, which are clearly visible against the opaque background. The supplement added to the medium allows the selective isolation of Vancomycin Resistant Enterococci. This medium can be inoculated directly from screening swab, isolated colony prepared as a liquid suspension approximately equivalent to 0.5 McFarland turbidity.

Quality Control

Appearance Cream to yellow homogeneous free flowing powder Gelling Firm, comparable with 1.5% Agar gel.

Colour and Clarity of prepared medium Off white coloured opaque gel forms in Petri plates.

Reaction

Reaction of 5.1% w/v aqueous solution at 25°C. pH : 6.5 ± 0.2

pH 6.30-6.70

Please refer disclaimer Overleaf.

Cultural Response

Cultural characteristics observed with added HiCrome VRE Agar Supplement (FD277), after an incubationat 35-37°C for 24-48 hours.

Cultural Response

Organism	Inoculum (CFU)	Growth	Recovery	Colour of colony
Cultural Response				
Enterococcus faecalis (VRE) 50-100	luxuriant	>=50%	bluish green
ATCC®51299				
Enterococcus faecalis ATCO	$C >= 10^3$	inhibited	0%	
29212				
Staphylococcus aureus	>=103	inhibited	0%	
ATCC 25923				

Storage and Shelf Life

Store dehydrated powder and prepared medium at 2-8°C in tightly capped container. Use before expiry date on the label.

Reference

1.Mara D., Horan NJ: The Handbook of water, wastewater and microbiology, Amsterdam, The Netherlands, Academic Press; 2003.

2.Mascini EM, Bonten MJ: Vancomycin- resistant enterococci: consequences for therapy and infection control. Clin Microbiol Infect.2005,11 (Suppl.4) :43-56

Revision : 2/ 2013

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 HiMedia[™] publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia[™] Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

HiMedia Laboratories Pvt. Ltd. A-516,Swastik Disha Business Park,Via Vadhani Ind. Est., LBS Marg, Mumbai-400086, India. Customer care No.: 022-6147 1919 Email: techhelp@himedialabs.com Website: www.himedialabs.com

Œ