Technical Information

M- Slanetz Enterococcus MiVeg Broth Base

Product Code :VM2113

Application:- M-Slanetz Enterococcus MiVeg Broth Base is used for isolation and detection of *Enterococci* using membrane filter technique.

Composition

Ingredients	Gms / Litre
MiVeg hydrolysate	25.0
MiVeg peptone	15.0
Yeast extract	10.0
Dextrose	2.0
Sucrose	100.0
Dipotassium phosphate	4.0
Sodium azide	0.4
Final pH (at 25°C)	7.1±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

M-Slanetz Enterococcus MiVeg Broth Base is prepared by using vegetable peptones in place of animal based peptones which makes the medium free of BSE/TSE risks. This medium is the modification of M-Slanetz Enterococcus Broth Base which is formulated according to Slanetz and Bartley (1) for isolation and detection of *Enterococci* using membrane filter technique.

It contains MiVeg hydrolysate, MiVeg peptone and yeast extract which supplies necessary nutrients like nitrogenous compounds and vitamin B complex. Dextrose and sucrose serve as thefermentable carbohydrate sources in the medium. Dipotassium phosphate maintains the buffering system of the medium. Sodium azide inhibits the growth of most of theaccompanying gram-negative microbial flora. Triphenyl Tetrazolium Chloride is reduced by *Enterococci* to formazan, a red coloured complex inside the bacterial cell gives red colouration to the colonies.

Methodology

Suspend 156 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Dispense and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool and aseptically add 1 vial of 2,3,5-Triphenyl Tetrazolium Chloride (TTC, MS2057). Add 2 ml of the medium on sterile abosrbent pad placed in a sterile petri plate.

Warning: Sodium azide has a tendency to form explosive metal azides with plumbing materials. It is advisable to use enough water to flush off the disposables.

Quality Control

Physical Appearance

Light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

Colour and Clarity of prepared medium

Yellow coloured, clear solution without any precipitate.

Reaction

Reaction of 15.6 % w/v aqueous solution pH: 7.1 ±0.2 at 25°C

pH range

6.9-7.3

Cultural Response/Characteristics

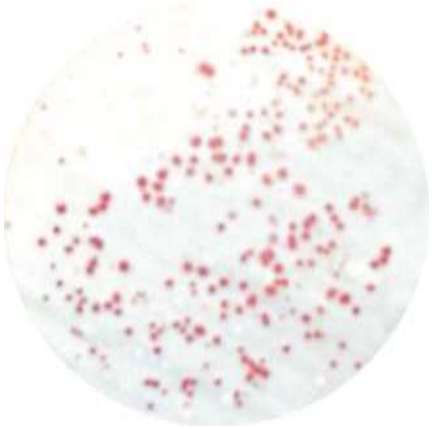
Cultural characteristics observed after an incubation at 35-37°C for 40-48 hours

Organisms (ATCC)	Inoculum (CFU)	Growth	Colour of colony*
Enterococcus faecalis (29212)	10-100	luxuriant	red to maroon
Escherichia coli (25922)	10^3	inhibited	-

Key : * = on membrane filter

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.
Prepared Media: 2-8^0 in sealable plastic bags for 2-5 days.



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Enterococcus faecalis

Further Reading

1. Slanetz L.W. and Bartley C.H., 1957, J. Bact., 74 : 591

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate
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