Technical Information

Nutrient MiVeg Agar 1.5%

Product Code :VM1087

Application:- Nutrient MIVeg Agar 1.5% is nutrient medium which can be used as general purpose medium for cultivation of fastidious microorganisms after appropriate enrichment.

Composition

Ingredients	Gms / Litre
MiVeg extract	3.0
MiVeg peptone	5.0
Sodium chlorides	8.0
Agar	15.0
Final pH (at 25°C)	7.3±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Nutrient MiVeg Agar 1.5% is prepared by using vegetable peptone in place of animal based peptones thus the medium becomes free from BSE/TSE risks. This medium is the modification of Nutrient Agar 1.5% recommended by APHA for cultivation and maintenance of nonfastidious microorganisms (1).

MiVeg peptone present in the medium is the principal source of organic nitrogen. It also contains MiVeg extract which supplies carbohydrates, vitamins, organic nitrogen compounds and salts. This medium may be used for blood culturing work after the addition of sterile 5-10% v/v defibrinated blood. Sodium chloride makes the medium isotonic which prevents haemolysis of red blood corpuscles.

Methodology

Suspend 31 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If desired, it can be appropriately enriched with sterile blood or ascitic fluid or serum after cooling to 45-50°C.

Quality Control

Physical Appearance

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

Gelling

Firm, comparable with 1.5% Agar gel.

Colour and Clarity of prepared medium

Yellow coloured, clear gel forms in petri plates. With the addition of blood, cherry red coloured, opaque gel forms in petri plates.

Reaction

Reaction of 3.1 % w/v aqueous solution pH: 7.3 ±0.2 at 25°C

pH range

7.1-7.5

Cultural Response/Characteristics

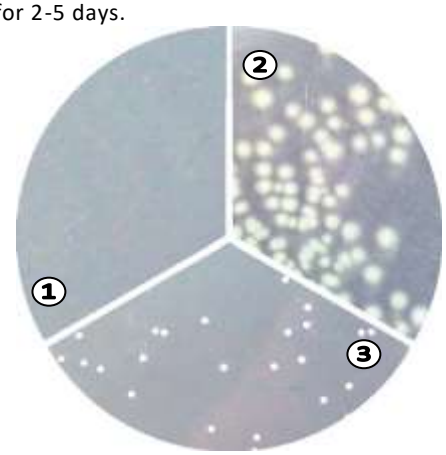
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
Escherichia coli (25922)	10^2-10^3	luxuriant	>70%
Pseudomonas aeruginosa (27853)	10^2-10^3	luxuriant	>70%

Staphylococcus aureus (25923)	10^2-10^3	luxuriant	>70%

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.



VM1087 Nutrient MiVeg Agar 1.5%
(Against dark background)

1. Control
2. *Pseudomonas aeruginosa*
3. *Staphylococcus aureus*

Further Reading

1. Downes, F.P. and Ito K, (Eds.), 2001, Compendium of Methods For The Microbiological Examination of Foods, 4th ed., APHA, Washington, D.C.

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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