Technical Information

Nutrient MiVeg Agar, pH 6.8

Product Code :VM1561

Application:- Nutrient MiVeg Agar, pH 6.8 is used for the cultivation of bacteria and for the enumeration of organisms in water, sewage, faeces and other materials.

Composition

Ingredients	Gms / Litre
MiVeg peptone	5.0
MiVeg extract	3.0
Agar	15.0
Final pH (at 25°C)	6.8±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Nutrient MiVeg Agar, pH 6.8 is prepared by using MiVeg peptone and MiVeg extract instead of animal based peptone and Beef extract respectively which makes the medium free from BSE / TSE risks .

Nutrient Agar is a basic culture medium used formaintenance and cultivation of bacteria from water, dairy products, and other materials (1, 2). This medium is the modification of Nutrient Agar with relatively simple formulation which supplies the necessary nutrients required for the growth of many microorganisms which are not very fastidious. Many bacteria have the optimum pH growth range of 6.6 to 7.0. it can be used as slants or plates for routine work with non-fastidious organisms.

This medium contains MiVeg extract which supplies vitamins, organic nitrogen compounds, salts and carbohydrates. It also contains MiVeg peptone which provides amino acids and long chain peptides for the organisms.

Methodology

Suspend 23 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 the medium can be enriched with 5 - 10% v/v sterile defibrinated blood.

Quality Control

Physical Appearance

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

Gelling

Firm, comparable with 1.5% Agar gel.

Colour and Clarity of prepared medium

Yellow coloured clear to slightly opalescent gel forms in petri plates.

Reaction

Reaction of 2.3 % w/v aqueous solution pH: 6.8 ±0.2 at 25°C

pH range

6.6-7.0

Cultural Response/Characteristics

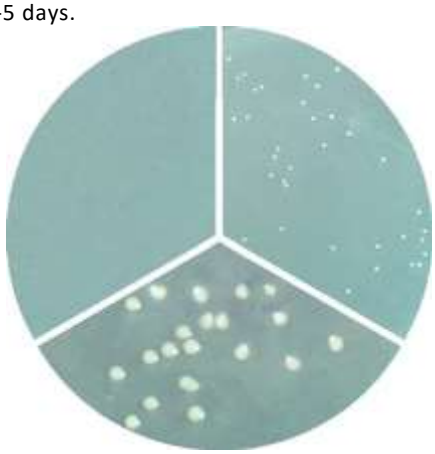
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
Enterococcus faecalis (29212)	10^2-10^3	luxuriant	>70%

Escherichia coli (25922)	10^2-10^3	luxuriant	>70%
Salmonella serotype Enteritidis (13076)	10^2-10^3	luxuriant	>70%
Salmonella serotype Typhi (6539)	10^2-10^3	luxuriant	>70%
Salmonella serotype Typhimurium (14028)	10^2-10^3	luxuriant	>70%
Shigella flexneri (12022)	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.



VM1561 Nutrient MiVeg Agar,pH 6.8
(Against dark background)
1. Control
2. *Enterococcus faecalis*
3. *Salmonella* serotype Typhimurium

Further Reading

1. Eaton A.D., Clesceri L.S. and Greenberg A.E., (Eds.), 2005, Standard Methods for the Examination of Water and Wastewater, 21st ed., APHA, Washington DC.
2. Standard Methods for the Examination of Dairy Products, 1978,14th ed., APHA, Washington DC.

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
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
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