Technical Information

Nutrient MiVeg Agar pH 6.0 w/ 0.8% NaCl

Product Code :VM1090

Application:- Nutrient MiVeg Agar pH 6.0 W/O 0.8% NaCl is a general purpose medium, recommended for microbiological analysis of water and cultivation of bacteria requiring slightly acidic pH.

Composition

Ingredients	Gms / Litre
MiVeg peptone	5.00
MiVeg extract	3.00
Sodium chloride	8.00
Agar	15.00
Final pH (at 25°C)	6.0±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Nutrient MiVeg Agar pH 6.0W/0.8% NaCl is prepared by using vegetable peptones in place of animal based peptones thereby making the medium free from BSE/TSE risks. MiVeg peptone and MiVeg extract are used in this medium as Miveg substitute of Peptic digest of animal tissue and Beef extract respectively.

This medium is a general purpose medium used for the examination of water and dairy products according to Standard Methods for the Examination of Water and Wastewater (1) and Dairy Products (2). This medium is a modification of Nutrient Agar w/ 0.8% NaCl and pH 6.0 recommended by APHA for the growth of microorganisms requiring slightly acidic conditions (3).

It contains MiVeg peptone and MiVeg extract which supplies the necessary nitrogen compounds, carbon, vitamins and also some trace ingredients necessary for the growth of bacteria. Sodium chloride maintains osmotic balance of the medium.

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.

Quality Control

Physical appearance

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

Gelling

Firm, comparable with 1.5% Agar gel of

Colour and Clarity of prepared medium

Light yellow to amber coloured, clear to slightly opalescent gel forms in petri plates.

Reaction

Reaction of 3.1 % w/v aqueous solution pH: 6.0±0.2 at 25°C

pH range

5.8-6.2

Cultural Response/Characteristics

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

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
Bacillus subtilis (6633)	10^2-10^3	Good	>50%

Candida albicans (10231)	10^2-10^3	luxuriant	>70%
Staphylococcus aureus (25923)	10^2-10^3	Good	>50%

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.

Further Reading

1. Greenberg A.E., Trussell R.R. and Clesceri L.S. (Eds.), 1985, Standard Methods for the Examination of Water and Wastewater, 16th ed., APHA, Washington, D.C.
2. American Public Health Association, 1978, Standard Methods for the Examination of Dairy Products, 14th ed., APHA, Inc., Washington, D.C.
3. Downes FP 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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