

Technical Information

Standard Nutrient MiVeg Agar

Product Code : VM1877

Application:- Standard Nutrient MiVeg Agar is recommended as a general purpose medium for the cultivation and enumeration of not particularly fastidious microorganisms.

Composition

Ingredients	Gms / Litre
MiVeg peptone No. 1	10.0
MiVeg extract	10.0
Sodium chloride	5.0
Agar	20.0
Final pH (at 25°C)	7.6 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Standard Nutrient MiVeg Agar is prepared by adding MiVeg peptone No. 1 and MiVeg extract which are of vegetable origin and free from BSE/TSE risks. Standard Nutrient MiVeg Agar is the modification of Standard Nutrient Agar which is formulated as recommended by APHA. It is a general purpose medium used for the large scale cultivation of non-fastidious organisms from water and wastewater, dairy and food products (1, 2).

MiVeg peptone No. 1 in the medium provides amino acids and large chain peptides. MiVeg extract supplies water soluble substances like carbohydrates, vitamins, organic nitrogen compounds and salts. Sodium chloride maintains osmotic equilibrium.

Methodology

Suspend 45 grams of powder media in 500 ml distilled water. Mix thoroughly and heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

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

Gelling

Firm, comparable with 2.0% Agar gel.

Colour and Clarity of prepared medium

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

Reaction

Reaction of 4.5% w/v aqueous solution is pH 7.6 ± 0.2 at 25°C.

pH Range

7.4 - 7.8

Cultural Response/Characteristics

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

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
<i>Escherichia coli</i> (25922)	10 ² -10 ³	Good-luxuriant	>70%
<i>Pseudomonas aeruginosa</i> (27853)	10 ² -10 ³	Good-luxuriant	>70%
<i>Salmonella</i> serotype Typhi (6539)	10 ² -10 ³	Good-luxuriant	>70%



Dehydrated Culture Media
Bases / Media Supplements

<i>Staphylococcus aureus</i> (25923)	10^2 - 10^3	Good-luxuriant	>70%
<i>Streptococcus pneumoniae</i> (6303)	10^2 - 10^3	Good-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° in sealable plastic bags for 2-5 day.

Further Reading

1. Clesceri L.S. and Greenberg A.E., Truseel R. (Eds.), 1985, Standard Methods for the Examination of Water and Wastewater, 16th ed, APHA, Washington, D.C.
2. Speck M. (Ed.), 1984, Compendium of Methods For The Microbiological Examination of Foods, 2nd ed., APHA, Washington, D.C.

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- User must ensure suitability of the product(s) in their application prior to use.
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