Technical Information

Nutrient MiVeg Agar

Product Code : VM1001

Application:- Nutrient MiVeg Agar is used as a general culture medium which may be used as an enrichment medium by incorporating 5-10% blood or other biological fluids.

Composition

Ingredients	Gms / Litre
MiVeg peptone	5.00
MiVeg extract	1.50
Yeast extract	1.50
Sodium chloride	5.00
Agar	15.00
Final pH (at 25°C)	7.4±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Nutrient MiVeg Agar is a specially prepared by using vegetable peptones instead of animal peptones which makes the medium free from BSE /TSE risk. This medium serves the same purpose as the Nutrient Agar. Comparatively nutritional properties of MiVeg peptone and MiVeg extract are same as to Peptic digest of animal tissue and Beef extract respectively.

Nutrient Agar is a basic culture medium used for maintaining microorganisms, cultivating fastidious organisms by enriching with serum or blood and are also used for purity checking prior to biochemical or serological testing (1, 2). Nutrient MiVeg Agar also serves these purposes. This medium can be used for the cultivation and enumeration of bacteria which are not particularly fastidious. It can be used for maintenance of control or standard microorganisms. Addition of different biological fluids such as horse or sheep blood, serum, egg yolk etc. makes it suitable for the cultivation of related fastidious organisms.

Methodology

Suspend 28 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If desired, medium can be enriched with 5-10% blood or other biological fluids.

Quality Control

Physical Appearance

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

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

Reaction

Reaction of 2.8 % w/v aqueous solution pH: 7.4 ±0.2 at 25°C

pH range

7.2-7.6

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours

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

Pseudomonas aeruginosa (27853)	10^2-10^3	good-luxuriant	>70%
Staphylococcus aureus (25923)	10^2-10^3	good-luxuriant	>70%
Streptococcus pyogenes (19615)	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: 2-8^0 in sealable plastic bags for 2-5 days.

Further Reading

1. Lapage S., Shelton J. and Mitchell T., 1970, 'Methods in Microbiology', Norris J. and Ribbons D. (Eds.), Vol. 3A., Academic Press, London.

2. MacFaddin J.F., 2000(ed), Biochemical Tests for Identification of Medical Bacteria, 3rd edition, Lippincott Williams and Wilkins, New York.

Disclaimer :

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