Dehydrated Culture Media
Bases / Media Supplements

Technical Information

A C MiVeg Agar

Product Code :VM1337

Application:- A C MiVeg Agar are recommended for cultivation of wide variety of microorganisms, and can also be used for sterility testing.

Composition

Ingredients	Gms / Litre
MiVeg peptone No. 3	20.00
MiVeg extact	3.00
Yeast extract	3.00
Malt extract	3.00
Dextrose	5.00
Ascorbic acid	0.20
Agar	1.00
Final pH (at 25°C)	7.2 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

AC MiVeg Media are prepared by using MiVeg peptone No.3 and MiVeg extract which are vegetable based peptones instead of animal based peptones, thus making the media BSE/TSE risk free. These media are equivalent to AC Agar and supports an early and luxuriant growth of aerobic, anaerobic and microaerophilic micro-organisms. It can also be used for sterility testing of solutions and biological products which do not contain mercurial preservatives. AC MiVeg Agar, like the conventional media do not exhibit the toxicity shown by media containing sodiumthioglycollate for some organisms as reported by Christensen (1) and Malin and Finn (2). Bailey et al reported excellent and rapid results in assaying potency of Streptomycin products using *Clostridium perfringens* as a test organism on AC Agar. Kolb and Schneither (3) used AC Agar to test the viability of *Bacillus anthracis* after exposure to methyl bromide to test the efficiency of methyl bromide as a germicidal and sporicidal agent.

Methodology

Suspend 35.2 grams of powder media in 1000 ml of distilled water. Mix throughly. Heat to boiling to dissolve the medium completely. Distribute in tubes or bottles to give the desired depth. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If the medium is not used on same day, it is advisable to drive off dissolved gases by boiling or steaming in the autoclave and cool without agitation.

Quality Control

Physical Appearance

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

Gelling

Semi solid, comparable with 0.1% Agar gel

Colour and Clarity of prepared medium

Medium amber coloured, clear to slightly opalescent gel semi solid in tubes.

Reaction

Reaction of 3.52% w/v aqueous solution pH: 7.2±0.2 at 25°C

pH range

7.0-7.4

CulturalResponse/Characteristics

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

Organisms (ATCC)	Inoculum (CFU)	Growth
Clostridium perfringens (12919)*	10^2-10^3	luxuriant
Neisseria meningitidis (13090)	10^2-10^3	luxuriant
Streptococcus pneumoniae (6303)	10^2-10^3	luxuriant
Streptococcus mitis (9895)	10^2-10^3	luxuriant
Staphylococcus aureus (25923)	10^2-10^3	luxuriant
Escherichia coli (25922)	10^2-10^3	luxuriant
Corynebacterium diphtheria (8024)	10^2-10^3	luxuriant
Streptococcus pneumoniae (6305)	10^2-10^3	luxuriant
Streptococcus pyogenes (19615)	10^2-10^3	luxuriant

Key : *Incubated anaerobically.

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. Paper read at N.Y. Meeting Am. Pub. Health Ass. 1944.
2. Malin and Finn, 1951, J. Bact., 62:349.
3. Kolb and Schneither, 1950, J. Bact., 59:401.

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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