



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Anaerobic MiVeg Agar

Product Code :VM1228

Application:- Anaerobic MiVeg Agar is recommended as general purpose medium for the cultivation of anaerobic bacteria, especially *Clostridium* species.

Composition**

Ingredients	Gms / Litre
MiVeg peptone No. 3	20.0
MiVeg hydrolysate	10.0
Yeast extract	5.0
Dextrose	2.0
Sodium chloride	5.0
Sodium thioglycollate	1.0
Sodium formaldehyde sulfoxylate	1.0
Resazurin	0.002
Agar	20.0
Final pH (at 25°C)	7.2 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Anaerobic Miveg Agar is prepared by using MiVeg hydrolysate instead of Casein enzymic hydrolysate which makes the medium BSE/TSE risk free. This medium is the modification of Anaerobic Agar originally designed for surface cultivation of members of the genus *Clostridium* and other anaerobic organisms in plates(1). This medium is suitable for isolation of facultative and obligate anaerobes and for the study of colonial morphology as colonies can be readily seen on the light coloured agar and can be easily interpreted. Anaerobic MiVeg Agar contains sodium thioglycollate and sodium formaldehyde sulfoxylate that provide adequate anaerobiosis indicated by methylene blue present in the medium which yields blue colour to medium in presence of oxygen. MiVeg hydrolysate and dextrose provide essential nutrients while sodium chloride maintains osmotic equilibrium. For best results, porous tops can be used for the plates during solidification to get dry surface. Inoculation can be done by streaking or smearing. The inoculated plate is then covered with sterile Brewer Anaerobic Petri dish cover and incubated aerobically as desired. When standard plates are used, dispense 0.1 to 1.0 ml of inoculum into plates and mix with 20 - 25 ml of sterile medium. After solidification, incubate anaerobically as required for particular organism under study. Methylene blue is inhibitory to some anaerobic microorganisms.

Methodology

Suspend 58 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 coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

Gelling and Clarity

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 that becomes green due to aeration on standing.





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Reaction

Reaction of 5.8% w/v aqueous solution is pH 7.2 ± 0.2 at 25°C.

pH range

7.0-7.4

Cultural Response/Characteristics

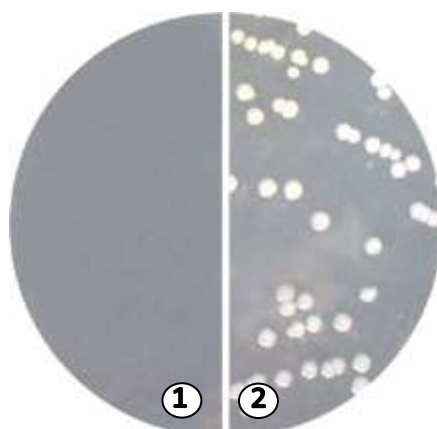
Cultural characteristics observed after an incubation at 35-37°C for 48-72 hours, under anaerobic condition.

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
<i>Clostridium butyricum</i> (9690)	10 ² - 10 ³	luxuriant	>50%
<i>Clostridium perfringens</i> (12924)	10 ² - 10 ³	luxuriant	>50%
<i>Clostridium sporogenes</i> (11437)	10 ² - 10 ³	luxuriant	>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° in sealable plastic bags for 2-5 days.



VM1228 Anaerobic MiVeg Agar

1. Control
2. *Clostridium perfringens*

Further Reading

1. Brewer J.H., 1942, Science, 95:587.

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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