Technical Information

Anaerobic MiVeg Agar (Brewer)

Product Code : VM1491

Application:- Anaerobic MiVeg Agar (Brewer) is recommended for the isolation and sensitivity testing of facultative and obligate anaerobes and study of their colonial morphology.

Composition**

Ingredients	Gms / Litre
MiVeg peptone No. 3	10.0
MiVeg hydrolysate	5.0
Yeast extract	5.0
Dextrose	10.0
Sodium chloride	5.0
Sodium thioglycollate	2.0
Sodium formaldehyde sulphoxylate	1.0
Resazurin	0.002
Agar	15.0
Final pH (at 25°C)	7.2 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Anaerebic Miveg Agar (Brewer)is prepared by MiVeg peptone No.3 and MiVeg hydrolysate instead of bovine origin Proteose peptone and Casein enzymic hydrolysate thus making the medium BSE/TSE risk free.Anaerobic MiVeg Agar (Brewer) is the modification ofAnaerobic Agar (Brewer) orginially devised by Brewer (1) for use with Brewer anaerobic cover to permit surface growth of anaerobes and microaerophiles on agar without the use of anaerobic jar. For best results, use porous tops on the plates containing the medium during solidification to obtain a dry surface. After inoculation of the medium, cover with Brewer anaerobic petri plate cover. The sealing ring inside the cover should make a perfect contact with the medium and must not be broken till the period of the incubation. MiVeg peptone, MiVeg hydrolysate and yeast extract provide the nitrogen source. Dextrose is a carbon source, sodium thioglycollate and sodium formaldehyde sulphoxylate are the reducing agents. Resazurin plays role of the redox indicator.

Methodology

Suspend 53 grams of dehydrated 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 1.5% Agar gel.

Colour and Clarity of prepared medium

Light amber coloured, clear to slightly opalescent gel forms in petri plates which turns red on standing due to aeration.

Reaction

Reaction of 5.3% 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 18 - 48 hours under anaerobic condition.

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
Clostridium botulinum (19397)	10^2 - 10^3	luxuriant	>50%
Clostridium perfringens (12924)	10^2 - 10^3	luxuriant	>50%
Clostridium sporogenes (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: 2-8^0 in sealable plastic bags for 2-5 days.

References :

1.Brewer. 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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