

Technical Information

Acetobacter MiVeg Agar w/ MiVeg Extract No.2

Product Code : VM1346

Application:- Acetobacter MiVeg Agar with MiVeg Extract No.2 is used as a maintenance medium for glucose positive *Acetobacter species*.

Composition**

Ingredients	Gms / Litre
MiVeg extract No. 2	2.0
MiVeg hydrolysate	5.0
Glucose	20.0
Calcium carbonate	10.0
Agar	20.0
(Final pH (at 25°C)	7.4± 0.2

** Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Acetobacter MiVeg Agar with MiVeg Extract No.2 is prepared by using vegetable peptones instead of animal based peptones which makes the medium free from BSE/TSE risks. Acetobacter MiVeg Agar with MiVeg Extract No.2 is a modification of Acetobacter Agar with Liver Extract. Acetobacter Agar is cited in Manual of Microbiology Methods (1). The medium recommended is essentially adopted by the American Type Culture Collection, meant for maintenance and preservation of *Acetobacter* culture. Necessary carbon and nitrogen sources are provided by the ingredients of the medium viz. glucose as carbon and energy source whereas yeast extract and MiVeg extract No.2 serves as a source of nitrogen and essential growth requirements.

Methodology

Suspend 57 grams of dehydrated media in 1000 ml distilled water. Mix thoroughly. Heat just to boiling. Dispense in test tubes taking care to distribute calcium carbonate evenly. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Shake the tubes, cool quickly and place them in slanting position so as to keep the calcium carbonate in suspension.

Note : Due to presence of calcium carbonate, the prepared medium forms opalescent solution with white precipitate.

Quality Control

Physical Appearance

Light yellow coloured may have slight 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 tubes.

Reaction

Reaction of 5.7% w/v aqueous solution is 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 24-48 hours.



Dehydrated Culture Media
Bases / Media Supplements

Organisms (ATCC)	Growth
<i>Acetobacter aceti</i> (15973)	luxuriant
<i>Acetobacter liquefaciens</i> (14835)	luxuriant

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.

Further Reading

1. Manual of Microbiological Methods, in chapter V, Maintenance and Preservation of cultures By Weiss, F.A. 1985, Society of American Bacteriologists, McGraw-Hill Book Company, New York.
2. ATCC Catalogue of Bacteria and Bacteriophages, 1996, 19th ed, American Type Culture Collection, Rockville, MD.

Disclaimer :

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