Technical Information

Oak Wilt Fungus MiVeg Agar

Product Code :VM1669

Application:- Oak Wilt Fungus MiVeg Agar is recommended for cultivation of Oak Wilt Fungus.

Composition

Ingredients	Gms / Litre
Malt extract	22.0
MiVeg peptone No. 4	8.0
Synthetic detergent No. II	5.0
Agar	15.0
Final pH (at 25°C)	5.7±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Oak Wilt Fungus MiVeg Agar is prepared by using MiVeg peptone No. 4 and Synthetic detergent No. II, thereby making the medium free from BSE/ TSE risks. This medium is modification of Oak Wilt Fungus Agar developed by Gallway and Bergers (1) and used for cultivation of Oak Wilt Fungus. Causal organism of Oak wilt disease is a fungus *Ceratocystis fagacearum*. After infection by this fungus, the trees contract oak wilt and die and the oak wilt fungus forms fungal mats under the bark of these dead trees.

The medium supports good growth of this fungus. It contains Malt extract solids and MiVeg peptone No.4 which supplies necessary nutrients required for metabolism by fungus. Typical morphology and pigmentation of fungus can be studied by using this medium. The acidic pH of medium favours the growth of fungus.

Methodology

Suspend 50 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. Cool to 50°C & distribute in sterile petri plate.

Quality Control

Physical Appearance

Light 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

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

Reaction

Reaction of 5.0 % w/v aqueous solution pH: 5.7 ±0.2 at 25°C

pH range

5.5-5.9

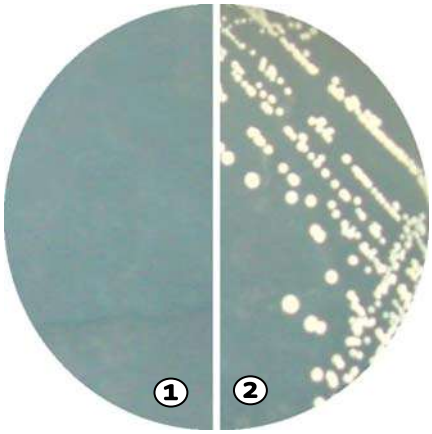
Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for 48-72 hours

Organisms (ATCC)	Inoculum (CFU)
Aspergillus niger (16404)	good-luxuriant
Ceratocystis fagacearum	good-luxuriant
Saccharomyces cerevisiae (9763)	good-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: 2-8^0 in sealable plastic bags for 2-5 days.



VM1669 Oak Wilt Fungus MiVeg Agar
(Against dark background)
1. Control
2. *Saccharomyces cerevisiae*

Further Reading

1. Gallway L D and Bergers R., 1952, Applied Mycology and Bacteriology; 3rd ed., Leronard Hill., London pg. 54 and 57.

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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