

**Oak Wilt Fungus HiVeg™ Agar****MV669**

Oak Wilt Fungus HiVeg Agar is used for cultivation of Oak Wilt Fungus.

**Composition \*\* :**

Ingredients	Grams/Litre
Malt extract	22.0
HiVeg 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.

**Directions :**

Suspend 50 grams in 1000 ml distilled water. Heat to boiling to dissolve completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°) for 15 minutes.

**Principle and Interpretation :**

This medium is developed by using HiVeg peptone No. 4 and Synthetic detergent No. II, which are free from BSE/TSE risks associated with animal based peptones. Oak Wilt Fungus HiVeg Agar is modification of Oak Wilt Fungus Agar developed by Gallway and Bergers (1) and used for cultivation of Oak Wilt Fungus. Oak wilt disease is caused by 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.

Oak Wilt Fungus HiVeg Agar supports good growth of this fungus. Malt extract solids and HiVeg peptone No.4 provides necessary nutrients required for metabolism by fungus. Typical morphology and pigmentation of fungus can be studied. The acidic pH of medium favours the growth of fungus.

**Quality Control :****Appearance of powder**

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

**Gelling**

Firm, comparable with 1.5% Agar gel.

**Colour and Clarity**

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

**Reaction**

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

**Product Profile :**

Vegetable based (Code MV)Ⓢ	Animal based (Code M)
<b>MV669</b> HiVeg peptone No.4 Synthetic detergent No.II	<b>M669</b> Mycological peptone Oxgall
<b>Recommended for</b>	: Cultivation of Oak Wilt Fungus
<b>Reconstitution</b>	: 50.0 g/l
<b>Quantity on preparation (100g)</b>	: 2.0 L
<b>pH (25°C)</b>	: 5.7 ± 0.2
<b>Supplement</b>	: None
<b>Sterilization</b>	: 121°C / 15 minutes
<b>Storage</b> : Dry Medium-Below 30°C, Prepared Medium 2-8°C.	

**Cultural Response**

Cultural characteristics observed after an incubation at 25-30°C for 48-72 hours.

**Organisms (ATCC)**

*Aspergillus niger* (16404)

*Ceratocystis fagacearum*

*Saccharomyces cerevisiae* (9763)

**Growth**

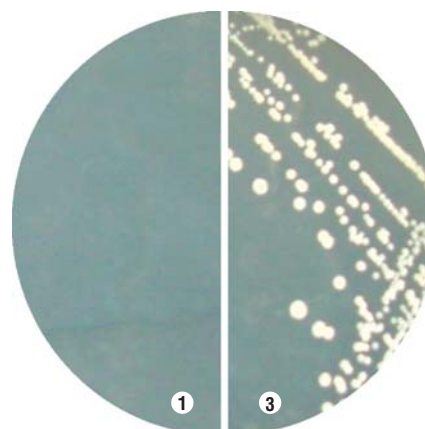
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**References :**

- Gallway L D and Bergers R., 1952, Applied Mycology and Bacteriology; 3<sup>rd</sup> ed., Leronard Hill., London pg. 54 and 57.



**MV669 Oak Wilt Fungus HiVeg Agar**  
(Against dark background)

1. Control

2. *Saccharomyces cerevisiae*