



6 MFA Medium

M866

6 MFA medium is used for cultivation of *Aspergillus ochraceus* .

Composition**

Ingredients	Gms / Litre
Yeast extract	10.000
Potassium dihydrogen phosphate	1.000
Potassium chloride	0.500
Sodium nitrate	3.000
Magnesium sulphate	0.500
Ferrous sulphate	0.010
Zinc sulphate	0.001
Sodium potassium tartrate	0.010
Dextrose	40.000
Agar	15.000

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 70.00 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour in sterile Petri plates.

Principle And Interpretation

Aspergillus is a large genus of common contaminants, containing about 175 species. Quite a diversity of species has been implicated in human mycoses (1), although these fungi normally inhabit other ecological niches. *Aspergillus ochraceus* was implicated in a case of antromycosis in humans (2)

Yeast extract provides a source of trace elements, vitamins and amino acids. Dextrose is the source of carbohydrate. Monopotassium dihydrogen phosphate and sodium potassium tartarate buffers the media. Magnesium sulphate, ferrous sulphate and zinc sulphate are sources of divalent cations and other necessary ions. Agar is the solidifying agent.

Quality Control

Appearance

Light yellow to yellow coloured 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

Cultural Response

M866: Cultural characteristics observed after an incubation at 25-30°C for 24-48 hours.

Organism	Growth
<i>Aspergillus niger</i> ATCC 16404	good-luxuriant
<i>Aspergillus ochraceus</i>	good-luxuriant
<i>Candida albicans</i> ATCC 10231	good-luxuriant
<i>Saccharomyces cerevisiae</i> ATCC 9763	good-luxuriant

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

1. Pitt,J.I.,1994. The current role of Aspergillus and Penicillium in human and animal health. J. Med. Vet. Mycol. 32.,Suppl.1:17-32.
2. Bassiouny, A., Maher, A., Bucci, T. J., Moawad, M.K & Hendawy, D.S. 1982. Noninvasive antromycosis (diagnosis and treatment).J. Laringol. Otol, 96:215-228.

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