

Technical Information

6 MFA Medium

Product Code: DM 1866

Application: - 6 MFA medium is recommended for cultivation of *Aspergillus ochraceous*.

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

Principle & 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 ochraceous* was implicated in a case of antromycosis in humans (2)

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

Methodology

Suspend 70.00 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. Shake well before pour in sterile Petri plates.

Quality Control

Appearance

Light yellow to yellow coloured 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

Cultural Response

DM 1866: Cultural characteristics observed after an incubation at 25-30°C for 24-48 hours.

Organism

Aspergillus niger ATCC 16404

Growth

good-luxuriant

Aspergillus ochraceous

good-luxuriant



Dehydrated Culture Media
Bases / Media Supplements

<i>Candida albicans</i> ATCC 10231	good-luxuriant
<i>Saccharomyces cerevisiae</i> ATCC 9763	good-luxuriant

Storage and Shelf Life

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

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

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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