

Malt Extract Medium (without Membrane Filter)

MF024

For detection and enumeration of yeasts and moulds.

Composition**

Proprietary

Directions

The test sample should be filtered through a sterile membrane filter having pore size of 0.45µ. Rehydrate the nutrient pad with 2.0 - 2.5 ml sterile distilled / purified water. After filtration, remove the membrane filter aseptically using sterile forceps. Place the membrane filter on rehydrated nutrient pad. Incubate the inoculated nutrient. Interpret the results qualitatively by observing the presence or absence of growth and quantitatively by counting the number of colonies on the surface of the membrane filter and calculating CFU/ml.

Principle And Interpretation

Fields of Application: Water, Food, Milk and other samples. DriFilter Membrane Nutrient Pad Medium is ready to use sterile culture media in the form of a 50 mm biological inert absorbent pads impregnated with Malt Extract medium, then dried and sterilized in 55 mm petri plate. They eliminate the need of laborious media preparation and autoclaving procedures. The nutrient pads are to be just rewetted with sterile distilled water and are ready to use. Use of nutrient pads allows larger sample volumes to be tested at a time. Interpretation of results is directly by counting the CFUs and also quantifies the microbial load present in the sample. Media used for the isolation of fungi are acidic and are designed to be inhibitory to bacteria. The use of malt and malt extracts for the propagation of yeasts and moulds is quite common. Reddish (1) described a culture medium prepared from malt extract that was a satisfactory substitute for wort. Malt Extract Medium is similar to the formula of Galloway and Burgess (2) used for the detection, isolation and enumeration of yeasts and moulds. Malt Extract medium is recommended for the examination of yeasts and moulds in the U.S. Food and Drug Administrations Bacteriological Analytical Manual (2). For mycological counts it may be desirable to prepare more acidic medium in order to suppress bacterial growth. Malt extract provides an acidic environment and nutrients favorable for growth and metabolism of yeasts and moulds. Mycological peptone rapidly gives a luxuriant growth with typical morphology and pigmentation.

Quality Control

Appearance

Dry filter membrane pad of 50mm diameter

Colour

Pale coloured nutrient pad

Sterility test

Passes release criteria

Cultural response

Cultural characteristics observed after incubation at 22-28°C for 48-72 hours

Organism	Growth
<i>Candida albicans</i> ATCC 10231	Luxuriant
<i>Aspergillus niger</i> ATCC 16404	Luxuriant
<i>Sacchromyces cerevisiae</i> ATCC 9763	Luxuriant

Storage and Shelf Life

Store between 10-30°C. Use before expiry date on the label.

Reference

1. Reddish A., 1919, Abstr. Bacteriol., 3:6. 2. FDA Bacteriological Analytical Manual, 2005, 18th Ed., AOAC, Washington, DC.



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