Technical Data

Sabouraud Dextrose Medium (without Membrane Filter) (Economy Pack)

MF003E

For yeast and mould detection and enumeration.

Composition**

Ingredients	Gms / Litre
Dextrose	20.000
Peptone, special	10.000

**Formula adjusted, standardized to suit performance parameters

Directions

The test sample should be filtered through a sterile membrane filter having pore size of 0.22µ / 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

Field of Application: Waste water, pharmaceuticals, cosmetics, packing material. 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 Sabouraud Dextrose 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. Sabouraud Dextrose Medium is Carliers modification (1) of the formulation described by Sabouraud (2) for the cultivation of fungi (yeasts, moulds), particularly useful for the fungi associated with skin infections. This medium is also employed to determine microbial contamination in food, cosmetics, and clinical specimens (3). Mycological peptone provides nitrogenous compounds. Dextrose provides an energy source. High dextrose concentration and low pH favours fungal growth and inhibits contaminating bacteria from test samples (4). Some pathogenic fungi may produce infective spores which are easily dispersed in air, so examination should be carried out in safety cabinet. For heavily contaminated samples, the plate must be supplemented with inhibitory agents for inhibiting bacterial growth with lower pH.

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 35-37ºC for 18-48 hours

Organism	Growth	Colour of colony
Sacchromyces cerevisiae ATCC 9763	Luxuriant	Colourless
Candida albicans ATCC 10231	Luxuriant	Colourless

Storage and Shelf Life

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

Reference

1. Carlier G. I. M., 1948, Brit. J. Derm. Syph., 60:61. 2. Sabouraud K., 1892, Ann. Dermatol. Syphilol, 3:1061. 3. Bacteriological Analytical Manual, 8th Edition, Revision A, 1998. AOAC, Washington D.C. 4. Murray PR, Baren EJ, Jorgensen JH, Pfaller MA, Yolken RH (editors) 2003, Manual of clinical Microbiology, 8th ed., ASM, Washington, D.C.

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