



Ready Prepared Media

Technical Information

Sabouraud Dextrose Agar

Product Code: SM1063H

Application: For cultivation of *C.albicans* in accordance with the harmonized method of USP/EP/BP/IP.

Composition**

Ingredients	Gms / Litre
Mycological, peptone	10.000
Dextrose	40.000
Agar	15.000

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Sabouraud Dextrose Agar 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.

Methodology

Sabouraud Dextrose Agar is a ready to use solid media in glass bottle. The medium is pre-sterilized; hence it does not need sterilization. Medium in the bottle can be melted either by using a pre-heated water bath or any other method. Slightly loosen the cap before melting. When complete melting of medium is observed dispense the medium as desired and allowed to solidify.

Quality Control

Appearance

Sterile glass bottle containing clear to slightly opalescent Sabouraud Dextrose Agar.

Colour

Light Amber coloured medium

Quantity of medium

100 ml of medium in glass bottle

Reaction

5.40- 5.80

Sterility test

Passes release criteria

Cultural response

Cultural characteristics after melting the medium and pouring into sterile petri plates. The plates are inoculated with following test organisms and incubation at 25°C for 7 days.

Organism

Aspergillus niger ATCC 16404

Candida albicans ATCC 10231

Saccharomyces cerevisiae ATCC 9763

Trichophyton rubrum ATCC 28191

Growth

Luxuriant

Luxuriant

Luxuriant

Luxuriant

Storage and Shelf Life

Store between 15-25°C. Use before expiry date on the label.



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Further Reading

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, Tenenbaum BC, Tenenbaum BC (editors) 2003, Manual of clinical Microbiology, 8th ed., ASM, Washington, D.C

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