

Sabouraud Dextrose Agar

SMH063CCL

For cultivation of *C. albicans* in accordance with USP/EP/BP/JP .

Composition**

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

**Formula adjusted, standardized to suit performance parameters

Directions

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.

Principle And 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.

Quality Control

Appearance

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

Colour

Light Amber coloured medium

Quantity of medium

250 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.

Orgnism	Growth
<i>Aspergillus niger</i> ATCC 16404	Luxuriant
<i>Candida albicans</i> ATCC 10231	Luxuriant
<i>Saccharomyces cerevisiae</i> ATCC 9763	Luxuriant

Trichophyton rubrum ATCC 28191 Luxuriant

Storage and Shelf Life

Store between 15-25°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, Baron EJ, Tenover JC, Tenover FC (editors) 2003, Manual of clinical Microbiology, 8th ed., ASM, Washington, D.C.



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