

## Sabouraud Dextrose Agar

SM063D

For cultivation of yeasts, moulds and aciduric microorganisms.

### 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

500ml 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, Baren EJ, Jorgensen JH, Pfaller MA, Tenover FC, Tenover FC (editors) 2003, Manual of clinical Microbiology, 8th ed., ASM, Washington, D.C.



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