



## Sabouraud Dextrose Agar w/ 3.0% Agar

M063A

Sabouraud Dextrose Agar w/ 3.0% Agar is used for the cultivation of yeasts, moulds and aciduric microorganisms (withstands longer autoclaving upto 30 minutes) .

### Composition\*\*

Ingredients	Gms / Litre
Mycological peptone	10.000
Dextrose	40.000
Agar	30.000
Final pH ( at 25°C)	5.6±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 80 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

### Principle And Interpretation

This medium with 3.0% agar is a modification of regular Sabouraud agar differing in concentration of agar. It can withstand longer autoclaving time upto 30 minutes. Sabouraud Dextrose Agar (M063) formulation described by Sabouraud (1) and Sabouraud Dextrose Agar w/3.0% agar (M063A) is used for the cultivation of fungi (yeasts, moulds) and aciduric microorganisms.

Mycological peptone provides nitrogenous compounds. Dextrose provides an energy source. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens (2).

### Quality Control

#### Appearance

Cream to yellow coloured homogeneous free flowing powder

#### Gelling

Firm, comparable with 3.0% Agar gel

#### Colour and Clarity of prepared medium

Light amber coloured clear to slightly opalescent gel forms in Petri plates.

#### Reaction

Reaction of 8.0% w/v aqueous solution at 25°C. pH : 5.6±0.2

#### pH

5.40-5.80

#### Cultural Response

M063A: Cultural characteristics observed after an incubation at 30°C for 48 - 72 hours .

Organism	Inoculum (CFU)	Growth	Recovery
<b>Cultural Response</b>			
<i>Aspergillus brasiliensis</i> ATCC 16404	50-100	luxuriant	
<i>Candida albicans</i> ATCC 10231	50-100	luxuriant	>=70%
<i>Escherichia coli</i> ATCC 25922	50-100	luxuriant ( inhibited on media with lower pH)	>=70%

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<i>Lactobacillus casei</i> ATCC 9595	50-100	luxuriant	>=70%
<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	luxuriant	>=70%
<i>Trichophyton rubrum</i> ATCC 28191	50-100	luxuriant	

### Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

### Reference

1. Sabouraud K., 1892, Ann. Dermatol. Syphilol, 3:1061.
2. Murray PR, Baren EJ, Jorgensen JH, Pfaller MA, Tenover FC, Tenover RH (editors) 2003, Manual of clinical Microbiology, 8th ed., ASM, Washington, D.C.

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