

Sabouraud Dextrose Agar

Intended Use

Sabouraud Dextrose Agar is used for the cultivation of yeasts, moulds and aciduric bacteria in accordance with European Pharmacopoeia.

Typical Composition (g/litre)

Dextrose 40.0; Mixture of peptic digest of animal tissue and pancreatic digest of casein (1:1) 10.0; Agar 15.0

Mode of Action

Sabouraud Dextrose Agar is used for the cultivation of fungi (yeasts, moulds) and aciduric microorganisms. Peptic digest of animal tissue and pancreatic digest of casein provides nitrogenous compounds. Dextrose provides an energy source. High dextrose concentration and low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens.

Preparation

Suspend 65 grams of dehydrated medium powder in 1 liter purified/ distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

pH after sterilization 5.6±0.2 at 25°C

Storage

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

Experimental Procedure and Evaluation

The plates are inoculated with sample material according to the instructions. The fungi colonies which have grown are judged macro- and microscopically. Incubation: up to 7 days at 28 °C aerobically.

Quality Control

Organism	Inoculum (CFU)	Growth	Recovery
Aspergillus brasiliensis ATCC 16404	50-100	Luxuriant	>=70%
Candida albicans ATCC 10231	50-100	Luxuriant	>=70%
Escherichia coli ATCC 25922	50-100	Good (inhibited on media with lower pH)	>=70%
Lactobacillus casei ATCC 334	50-100	Luxuriant	>=70%
Saccharomyces cerevisiae ATCC 9763	50-100	Luxuriant	>=70%
Trichophyton rubrum ATCC 28191	50-100	Good	



Reference

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