

Sabouraud Dextrose Agar 2%

Cat. 1166

For the cultivation of dermatophytes.

Practical information

Applications	Categories
Selective isolation	Dermatophytes

Industry: Clinical



Principles and uses

Sabouraud Dextrose Agar 2% is recommended for the cultivation of dermatophytes, particularly those associated with skin infections. The fungi colonies can be observed macro and microscopically.

To prepare a selective culture medium, aseptically add cycloheximide, penicillin and streptomycin, since is demonstrated that the basic agar, fortified by three antibiotics, considerably improves the isolation of pathogenic fungi from heavily contaminated sources.

Dextrose is the fermentable carbohydrate providing carbon and energy. Peptone provides nitrogen, vitamins, minerals and amino acids essential for growth. Bacteriological agar is the solidifying agent.

The high dextrose concentration makes this medium selective for fungi. The low pH of 5,6 approximately is appropriate for the growth of dermatophytes, as well as being slightly inhibitory to contaminating bacteria in clinical specimens.

Formula in g/L

Bacteriological agar	17	Dextrose	20
Peptone	10		

Preparation

Suspend 47 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Distribute and sterilize in autoclave at 121°C for 15 minutes.

Instructions for use

- Use standard procedures to inoculate the sample material.
- Incubate the Sabouraud Dextrose Agar 2% plates for up to 7 days at 28 °C in aerobic conditions.

Quality control

Solubility	Appareance	Color of the dehydrated medium	Color of the prepared medium	Final pH (25°C)
w/o rests	Fine powder	Beige	Amber, slightly opalescent	5,6 ± 0.2

Microbiological test

Incubation conditions: (28±2 °C / 7 days)

Microorganisms

Candida albicans ATCC 10231

Aspergillus brasiliensis ATCC 16404

Trichophyton mentagrophytes ATCC 24957

Trichophyton rubrum CECT 2794

Specification

Good growth

Good growth

Good growth

Moderate growth

Storage

Temp. Min.:2 °C

Temp. Max.:25 °C

Bibliography

GEORG, L.K,AJELLO, L., a PAPAGEORGE; C: Use of cycloheximide in the selective isolation of fungi pathogenic to man.