



Technical Data

HiEncap™ Sabouraud Dextrose Agar

EC063CCL

HiEncap™ Sabouraud Dextrose Agar is used for the cultivation of yeasts, moulds and aciduric microorganisms.

Composition**

Ingredients	Gms / Litre
Dextrose	40.000
Mycological peptone	10.000
Agar	15.000
Final pH (at 25°C)	5.6±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Each capsule contains 16.25 grams of medium. Suspend 1 capsule in 250 ml (4 capsules in 1000ml) 1000 ml distilled or purified water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well before pouring.

Principle And Interpretation

Sabouraud Dextrose Agar is Carlier's 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

Gelatin capsule containing cream to yellow coloured granular media

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

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

Quantity

Each capsule contains 16.25 grams of medium sufficient for 250 ml media

Reaction

Reaction of 6.5% w/v aqueous solution at 25°C. pH : 5.6±0.2

pH

5.40-5.80

Cultural Response

Cultural characteristics observed after an incubation at 20-25°C for 48 hours

Cultural Response

Organism	Inoculum (CFU)	Growth	Recovery
<i>Candida albicans</i> ATCC 10231	50 -100	luxuriant	≥70 %

Please refer disclaimer Overleaf.

* <i>Aspergillus brasiliensis</i> ATCC 16404	50 -100	luxuriant	>=70 %
<i>Candida albicans</i> ATCC 2091	50 -100	luxuriant	>=70 %
<i>Saccharomyces cerevisiae</i> ATCC 9763	50 -100	luxuriant	>=70 %
<i>Escherichia coli</i> ATCC 25922	50 -100	luxuriant	>=70 %
<i>Escherichia coli</i> ATCC 8739	50 -100	luxuriant	>=70 %
<i>Escherichia coli</i> NCTC 9002	50 -100	luxuriant	>=70 %
<i>Trichophyton rubrum</i> ATCC 28191		luxuriant	
<i>Lactobacillus casei</i> ATCC 334	50 -100	luxuriant	>=70 %

* Key: Formerly known as *Aspergillus niger*

Storage and Shelf Life

Store below 30°C in a tightly closed container and the prepared medium at 2 - 8°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 RH (editors) 2003, Manual of clinical Microbiology, 8th ed., ASM, Washington, D.C.

Revision :00 / 2014



Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.