



# Technical Data

## Sabouraud Dextrose HiCynth™ Broth

MCD033

Sabouraud Dextrose HiCynth™ Broth (Sabouraud Liquid HiCynth™ Medium) is used for cultivation of yeasts, moulds and aciduric microorganisms from food, pharmaceutical and chemical samples.

### Composition\*\*

Ingredients	Gms / Litre
HiCynth™ Peptone No.2*	10.000
Dextrose	20.000
Final pH ( at 25°C)	5.6±0.2

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

\*Chemically defined peptone

### Directions

Suspend 30 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Mix well and dispense in tubes or flasks as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

### Principle And Interpretation

Sabouraud Dextrose Agar is Carliers modifications (1) of the formulation described by Sabouraud (2) for the cultivation of fungi, particularly those associated with skin infections. The medium is also recommended by APHA (3). Sabouraud Dextrose Broth is also a modification by Sabouraud (4) and serves the same purpose as Sabouraud Dextrose Agar. Sabouraud Dextrose HiCynth™ Broth is modified using chemically defined peptone instead of animal or vegetable peptone to avoid BSE/TSE risks associated with animal peptone.

HiCynth™ Peptone No.2 provides nitrogen and carbon source, vitamins, minerals, long chain amino acids and growth factors. Dextrose provides an energy source for the growth of fungi. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens (5). The acid reaction of the final medium is inhibitory to a large number of bacteria making it particularly useful for cultivating fungi and aciduric microorganisms. For isolation of fungi from contaminated specimens, a selective medium should be inoculated simultaneously. Incubate cultures for 4 to 6 weeks before reporting as negative.

### Quality Control

#### Appearance

Cream to yellow homogeneous free flowing powder

#### Colour and Clarity of prepared medium

Light amber coloured clear solution in tubes

#### Reaction

pH of 3.0% w/v aqueous solution at 25°C. pH : 5.6±0.2

#### pH

5.40-5.80

#### Cultural Response

MCD033: Cultural characteristics observed after incubation at 20-25 °C for 3-5 days.

Organism	Inoculum (CFU)	Growth	Incubation temperature	Incubation period
<b>Cultural Response</b>				
<i>Candida albicans</i> ATCC 10231	50 -100	luxuriant	20 -25 °C	<=5 d
<i>Aspergillus brasiliensis</i> ATCC 16404	50 -100	luxuriant	20 -25 °C	<=5 d
<i>Saccharomyces cerevisiae</i> ATCC 9763	50 -100	luxuriant	20 -25 °C	3 -5 d

<i>Saccharomyces cerevisiae</i> ATCC 2601	50 -100	good-luxuriant	20 -25 °C	3 -5 d
<i>Candida albicans</i> ATCC 2091	50 -100	luxuriant	20 -25 °C	3 -5 d
<i>Escherichia coli</i> ATCC 8739	50 -100	Luxuriant (inhibited on media with low pH)	20 -25 °C	3-5 d
<i>Escherichia coli</i> ATCC 25922	50 -100	good-luxuriant (inhibited on media with low pH)	20 -25 °C	3 -5 d
<i>Escherichia coli</i> NCTC 9002	50 -100	Luxuriant (inhibited on media with low pH)	20 -25 °C	3 -5 d
<i>Lactobacillus casei</i> ATCC 334	50 -100	luxuriant	20 -25 °C	3 -5 d

### Storage and Shelf Life

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

### Reference

1. Carlier G. I. M., 1984, Brit. J. Derm. Syph., 60:61
2. Sabouraud R., 1892, Ann. Dermatol. Syphil. 3 : 1061.
3. Downes F. P. and Ito K., (Eds.), 2001, Compendium of Methods for the Microbiological Examination of Foods, 4th Ed., APHA, Washington, D.C.
4. Sabouraud R., Les Teignes, Paris: Masson et Cie, 1910, p 553
5. Murray P. R., Baron J. H., Pfaller M. A., Jorgensen J. H. and Tenover F. C., (Ed.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.

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