Sabouraud Dextrose HiCynth™ Broth

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**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>HiCynth™ Peptone No.2*</td>
<td>10.000</td>
</tr>
<tr>
<td>Dextrose</td>
<td>20.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>5.6±0.2</td>
</tr>
</tbody>
</table>

**Directions**

Suspend 30.0 grams in 1000 ml purified / distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and dispense as desired.

**Principle And Interpretation**

Sabouraud Dextrose Agar is Carliers modifications (2) of the formulation described by Sabouraud (7) for the cultivation of fungi, particularly those associated with skin infections. The medium is also recommended by APHA (8). Sabouraud Dextrose Broth is also a modification by Sabouraud (6) and serves the same purpose as Sabouraud Dextrose Agar Medium 3. 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.

Sabouraud dextrose media are peptone media supplemented with dextrose to support the growth of fungi. HiCynth™ Peptone No.2 provides nitrogen, vitamins, minerals, amino acids and growth factors. Dextrose provides an energy source for the growth of microorganisms. The low pH favors 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.

**Type of specimen**

Clinical : Skin scrapings; Pharmaceutical samples.

**Specimen Collection and Handling**

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (3,4).

For food and dairy samples, follow appropriate techniques for sample collection and processing as per guidelines (1,8).

After use, contaminated materials must be sterilized by autoclaving before discarding.

**Warning and Precautions**

In Vitro diagnostic use. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

**Limitations**

1. Since it is a general purpose medium, bacterial cultures will also grow.
2. Further isolation and biochemical tests should be carried out for confirmation.

Please refer disclaimer Overleaf.
Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

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

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Candida albicans</em> ATCC 10231 (00054*)</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
<tr>
<td><em>Candida albicans</em> ATCC 2091 (00055*)</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
<tr>
<td><em>Aspergillus brasiliensis ATCC 16404</em> (00053*)</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
<tr>
<td><em>Saccharomyces cerevisiae ATCC 9763</em> (00058*)</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
<tr>
<td><em>Saccharomyces cerevisiae ATCC 2601</em></td>
<td>50 -100</td>
<td>good-luxuriant</td>
</tr>
<tr>
<td><em>Escherichia coli</em> ATCC 8739 (00012*)</td>
<td>50 -100</td>
<td>Luxuriant (inhibited on media with low pH)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>good-luxuriant</td>
</tr>
<tr>
<td><em>Escherichia coli</em> ATCC 25922 (00013*)</td>
<td>50 -100</td>
<td></td>
</tr>
<tr>
<td><em>Escherichia coli</em> NCTC 9002</td>
<td>50 -100</td>
<td>Luxuriant (inhibited on media with low pH)</td>
</tr>
<tr>
<td><em>Lactobacillus casei</em> ATCC 334</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
</tbody>
</table>

Key : *Corresponding WDCM numbers.

Storage and Shelf Life
Store between 10-30°C in a tightly closed container and the prepared medium at 15-25°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition Seal the container tightly after use. Product performance is best if used within stated expiry period.

Disposal
User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (3,4)
Reference

In vitro diagnostic medical device

CE Marking

Storage temperature

Do not use if package is damaged

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