HiEncap™ Sabouraud Dextrose Broth (HiEncap™ Sabouraud Liquid Medium)

HiEncap™ Sabouraud Dextrose Broth (Sabouraud Liquid Medium) is used for cultivation of yeasts, moulds and aciduric microorganisms.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dextrose</td>
<td>20.000</td>
</tr>
<tr>
<td>Peptone, special</td>
<td>10.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>5.6±0.2</td>
</tr>
</tbody>
</table>

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

**Directions**

Each capsule contains 7.5 grams of media. Suspend 1 capsule in 250 ml (4 capsules in 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 and dispense as desired.

**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 media are peptone media supplemented with dextrose to support the growth of fungi. Peptone special provides nitrogen, vitamins, minerals, amino acids and growth factors. Dextrose provides an energy source for the growth of microorganisms. 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**

Gelatin capsule containing cream to yellow coloured granular media

**Colour and Clarity of prepared medium**

Light amber coloured clear solution in tubes

**Quantity**

Each capsule contains 7.5 grams of medium sufficient for 250 ml media

**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.

**Cultural Response**

EC033CCL: Cultural characteristics observed after incubation at 20-25 °C for 3-5 days.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
<th>Incubation temperature</th>
<th>Incubation period</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Candida albicans</em> ATCC 10231</td>
<td>50 -100</td>
<td>luxuriant</td>
<td>20 -25 °C</td>
<td>&lt;=5 d</td>
</tr>
</tbody>
</table>
*Aspergillus brasiliensis ATCC 16404
50 -100 luxuriant 20 -25 °C <=5 d

Saccharomyces cerevisiae ATCC 9763
50 -100 luxuriant 20 -25 °C 3 -5 d

Saccharomyces cerevisiae ATCC 2601
50 -100 good-luxuriant 20 -25 °C 3 -5 d

Candida albicans ATCC 2091
50 -100 luxuriant 20 -25 °C 3 -5 d

Escherichia coli ATCC 8739 50 -100
Luxuriant (inhibited on media with low pH) 20 -25 °C <=5 d

Escherichia coli ATCC 25922
50 -100 good-luxuriant 20 -25 °C 3 -5 d

Escherichia coli NCTC 9002 50 -100
Luxuriant (inhibited on media with low pH) 20 -25 °C 3 -5 d

Lactobacillus casei 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