Sabouraud Dextrose Broth Medium 3. (In accordance with I.P. 2014)

Sabouraud Dextrose Broth is for cultivation of yeasts, moulds and aciduric microorganisms in accordance with Indian Pharmacopoeia 2014

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peptones (meat and casein)</td>
<td>10.000</td>
</tr>
<tr>
<td>Dextrose monohydrate</td>
<td>20.000</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**

Suspend 28.18 gram (equivalent weight of dehydrated medium per litre) in 1000 ml purified/distilled water. Heat if necessary to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes i.e. validated cycle. DO NOT OVERHEAT.

**Principle And Interpretation**

Sabouraud Dextrose Agar is Carlier's 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. Medium 3. Sabouraud Dextrose Broth is in accordance with Indian Pharmacopoeia (6).

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**
Cream to yellow homogeneous free flowing powder

**Colour and Clarity of prepared medium**
Light amber coloured clear solution in tubes

**Reaction**

pH of 2.81% w/v aqueous solution at 25°C. pH : 5.6±0.2

<table>
<thead>
<tr>
<th>pH</th>
</tr>
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<tbody>
<tr>
<td>5.40-5.80</td>
</tr>
</tbody>
</table>

**Cultural Response**

MM033: 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>Candida albicans ATCC 10231</td>
<td>50 -100</td>
<td>luxuriant</td>
<td>20 -25 °C</td>
<td>&lt;=5 d</td>
</tr>
<tr>
<td>*Aspergillus brasiliensis ATCC 16404</td>
<td>50 -100</td>
<td>luxuriant</td>
<td>20 -25 °C</td>
<td>&lt;=5 d</td>
</tr>
</tbody>
</table>

*Please refer disclaimer Overleaf.*
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

Revision : 1 / 2011

Disclaimer:
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