Sabouraud Dextrose Agar Plate w/Chloramphenicol (50mg/L) and Cycloheximide (500mg/L)

Intended Use:
Recommended for selective isolation and cultivation of pathogenic fungi.

Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peptone</td>
<td>10.000</td>
</tr>
<tr>
<td>Dextrose (Glucose)</td>
<td>20.000</td>
</tr>
<tr>
<td>Chloramphenicol</td>
<td>50mg</td>
</tr>
<tr>
<td>Cycloheximide</td>
<td>500mg</td>
</tr>
<tr>
<td>Agar</td>
<td>15.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>6.8±0.2</td>
</tr>
</tbody>
</table>

**Formula adjusted, standardized to suit performance parameters

Directions
Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.

Principle And Interpretation
Sabouraud Dextrose Agar was originally formulated by Sabouraud (7) and further modified by Emmons (3) by reducing dextrose content and adjusting the pH close to neutral.
Peptone is the source of nitrogenous growth factors while dextrose provides an energy source for the growth of microorganisms. The media can be rendered selective for fungi by antibiotics such as Chloramphenicol (1) and Cycloheximide (6), which inhibit some bacteria as well as some saprophytic and pathogenic fungi. This medium inhibits fungi like Cryptococcus neoformans, Aspergillus, Nocardia, certain Candida species but allow the dermatophytes to grow well.

Type of specimen
Clinical: Skin scrappings, nail scrappings

Specimen Collection and Handling
For clinical samples follow appropriate techniques for handling specimens as per established guidelines (4,5).
After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions
In Vitro diagnostic use only. 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. Some pathogenic fungi may produce infective spores which are easily dispersed in air, so examination should be carried out in safety cabinet
2. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium
3. Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user’s unique requirement.
4. Further biochemical tests should be carried out for confirmation.

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.

Please refer disclaimer Overleaf.
Quality Control

Appearance
Cream to yellow homogeneous free flowing powder

Colour of Medium
Light amber coloured

Quantity of medium
25 ml of medium in 90 mm disposable plates.

Reaction
6.60-7.00

Sterility Test
Passes release criteria

Cultural Response
Cultural characteristics observed after an incubation at 25-30°C for 2-3 weeks.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
<th>Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Aspergillus brasiliensis</em></td>
<td>50-100</td>
<td>none-poor</td>
<td></td>
</tr>
<tr>
<td>ATCC 16404 (00053*)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Candida albicans ATCC</td>
<td>50-100</td>
<td>poor-fair</td>
<td>&lt;=20%</td>
</tr>
<tr>
<td>10231 (00054*)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Escherichia coli ATCC</td>
<td>&gt;=10⁴</td>
<td>inhibited</td>
<td>0%</td>
</tr>
<tr>
<td>25922 (00013*)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saccharomyces cerevisiae ATCC</td>
<td>50-100</td>
<td>none-poor</td>
<td>&lt;=20%</td>
</tr>
<tr>
<td>9763 (00058*)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trichophyton mentagrophytes ATCC</td>
<td>50-100</td>
<td>luxuriant</td>
<td></td>
</tr>
<tr>
<td>9533</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trichophyton rubrum ATCC</td>
<td>50-100</td>
<td>luxuriant</td>
<td></td>
</tr>
<tr>
<td>28191</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Key : (*) - Corresponding WDCM numbers.
(##) - Formerly known as *Aspergillus niger*

Storage and Shelf Life
On receipt store between 2-8°C Use before expiry date on the label.
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 (5-6).

Reference
Disclaimer:

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