Sabouraud Glucose Agar w/Antibiotics

Sabouraud Glucose agar w/ Antibiotics is recommended for selective cultivation of yeasts and moulds.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casein enzymic hydrolysate</td>
<td>5.000</td>
</tr>
<tr>
<td>Peptic digest of animal tissue</td>
<td>5.000</td>
</tr>
<tr>
<td>Glucose</td>
<td>40.000</td>
</tr>
<tr>
<td>Agar</td>
<td>15.000</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 65 grams in 995 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Aseptically add rehydrated contents of 1 vial of Tetracycline Selective Supplement (FD196). Mix well and pour into sterile Petri plates.

Some pathogenic fungi may produce infective spores, which are easily dispersed in air, so examination should be carried out in safety cabinet.

**Principle And Interpretation**

Sabouraud Glucose Agar w/Antibiotics is used for selective cultivation of yeasts and moulds. Sabouraud Dextrose Agar is Carliers modification (1) of the formulation described by Sabouraud (2) for the cultivation of fungi. Sabouraud Glucose Agar w/ Antibiotics is a modification of Sabouraud Dextrose Agar formulated by Sabouraud (2). The medium is used with Tetracycline for the isolation of pathogenic fungi from materials containing large numbers of fungi or bacteria.

Casein enzymic hydrolysate and peptic digest of animal tissue provide nitrogenous compounds. Glucose provides an energy source. Tetracycline inhibits a wide large of gram positive and gram negative bacteria making the medium selective for fungi. The low pH favors fungal growth and inhibits contaminating bacteria from clinical specimen.

**Quality Control**

**Appearance**
Cream to yellow homogeneous free flowing powder

**Gelling**
Firm, comparable with 1.5% Agar gel

**Colour and Clarity of prepared medium**
Light amber coloured clear to slightly opalescent gel forms in Petri plates

**Reaction**
Reaction of 6.5% w/v aqueous solution at 25°C. pH : 5.6±0.2

**pH**
5.40-5.80

**Cultural Response**
M1472: Cultural characteristics observed after an incubation at 20-25°C for 48-72 hours with added tetracycline supplement (Incubate for 7 days for Trichophyton species).

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
<th>Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspergillus brasiliensis</td>
<td>50-100</td>
<td>good-luxuriant</td>
<td></td>
</tr>
<tr>
<td>ATCC 16404</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please refer disclaimer Overleaf.
Candida albicans ATCC 10231 50-100 good-luxuriant >=50%
Escherichia coli ATCC 25922 >=10³ inhibited 0%
Lactobacillus casei ATCC 334 >=10³ inhibited 0%
Saccharomyces cerevisiae ATCC 9763 50-100 good-luxuriant >=50%
Trichophyton rubrum ATCC 50-100 good-luxuriant
Escherichia coli ATCC 8739 >=10³ inhibited 0%
Escherichia coli NCTC 9002 >=10³ inhibited 0%

*Key: Formerly known as Aspergillus niger

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

Reference