Sabouraud Dextrose Maltose Agar

Sabouraud Dextrose Maltose Agar is used for the cultivation of moulds, yeasts and aciduric organisms as well as testing antymycotic substances.

**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>Dextrose</td>
<td>10.000</td>
</tr>
<tr>
<td>Maltose</td>
<td>10.000</td>
</tr>
<tr>
<td>Agar</td>
<td>15.000</td>
</tr>
<tr>
<td><strong>Final pH (at 25°C)</strong></td>
<td>5.4±0.2</td>
</tr>
</tbody>
</table>

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

**Directions**

Suspend 45.0 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. DO NOT OVERHEAT. Mix well and pour in sterile Petri plates.

**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. Sabouraud Dextrose Maltose Agar is used for the cultivation of yeast, moulds and other aciduric organisms (3, 4, 5).

Sabouraud dextrose media are peptone media supplemented with dextrose to support the growth of fungi. Casein enzymic hydrolysate and peptic digest of animal tissue provide nitrogen, vitamins, minerals, amino acids and growth factors. Dextrose and maltose provide an energy source for the growth of microorganisms. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens (6). 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

**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 4.5% w/v aqueous solution at 25°C. pH : 5.4±0.2

**pH**
5.20-5.60

**Cultural Response**
M1313: Cultural characteristics observed after an incubation at 25 - 30°C for up to 5 days.

<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>ATCC 16404</td>
<td>50-100</td>
<td>good-luxuriant</td>
</tr>
</tbody>
</table>
**HiMedia Laboratories**

### Technical Data

**Candida albicans ATCC 10231**
- 50-100
- good-luxuriant
- >70%

**Escherichia coli ATCC 25922**
- 50-100
- good-
- luxuriant
- (Inhibited on media with low pH)
- >70%

**Lactobacillus casei ATCC 9595**
- 50-100
- good-luxuriant
- >70%

**Saccharomyces cerevisiae ATCC 9763**
- 50-100
- good-luxuriant
- >70%

**Trichophyton rubrum ATCC 28191**
- 50-100
- good-luxuriant

**Penicillium notatum ATCC 10108**
- 50-100
- Good-luxuriant

**Trichophyton gallinae ATCC 50-100**
- 50-100
- Good-luxuriant

**Trichophyton mentagrophytes ATCC 9533**
- 50-100
- Good-luxuriant

**Trichophyton ajelloi ATCC 24885**
- 50-100
- Good-luxuriant

*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


Revision : 1 / 2011

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**Disclaimer:**

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