Special Yeast and Mould Medium is used for isolation and cultivation of yeasts and moulds.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malt extract</td>
<td>20.000</td>
</tr>
<tr>
<td>Peptic digest of animal tissue</td>
<td>1.000</td>
</tr>
<tr>
<td>Dextrose</td>
<td>20.000</td>
</tr>
<tr>
<td>Agar</td>
<td>20.000</td>
</tr>
</tbody>
</table>

**Final pH (at 25°C)**

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

**Directions**

Suspend 61 grams in 1000 ml distilled water. Mix thoroughly. Heat to boiling with frequent agitation to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. For improved selectivity, aseptically add 40 mg streptomycin and/or 35 mg chlortetracycline and mix well. If desired, adjust pH by aseptically adding 1N HCl or 1N NaOH.

**Principle And Interpretation**

The three basic structural types of fungi are moulds, yeasts and fleshy fungi (1). These organisms grow on simple nutritive media with an acidic pH. The acidic pH restricts the growth of bacteria.

ACGIH recommended Special YM Medium for the detection and enumeration of fungi (2) with added antibiotics. This medium can also be used for collecting airborne microorganisms (3). Meat extract and peptone provide the required nutrients in the medium. Dextrose is the carbon source. This medium can also be made selective by the addition of antimicrobials.

**Quality Control**

**Appearance**

Cream to yellow homogeneous free flowing powder

**Colour and Clarity of prepared medium**

Light to medium amber coloured clear to slightly opalescent gel forms in Petri plates.

**Reaction**

Reaction of 6.1% w/v aqueous solution at 25°C. pH : 5.6±0.2

**pH**

- 5.40-5.80

**Cultural Response**

M1613: Cultural characteristics observed after an incubation at 28-32°C for 48-72 hours (Trichophyton mentagrophytes incubated at 30±2°C for upto 7days).

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aspergillus niger ATCC 16404</strong></td>
<td>50-100</td>
<td>good</td>
</tr>
<tr>
<td><strong>Candida albicans ATCC 26790</strong></td>
<td>50-100</td>
<td>good</td>
</tr>
<tr>
<td><strong>Enterococcus faecalis ATCC 29212</strong></td>
<td>&gt;=10⁸</td>
<td>inhibition (on addition of antibacterial agents)</td>
</tr>
<tr>
<td><strong>Escherichia coli ATCC 25922</strong></td>
<td>&gt;=10⁸</td>
<td>inhibition (on addition of antibacterial agents)</td>
</tr>
</tbody>
</table>
antibacterial agents)

*Trichophyton mentagrophytes ATCC 9533*

50-100 poor to fair

**Storage and Shelf Life**

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

**Reference**


Revision : 1 / 2011

Disclaimer:

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