Fungal Broth w/low pH (Mycological Broth w/low pH)  

Fungal Broth w/low pH (Mycological Broth w/low pH) is recommended for the selective enumeration and cultivation of saprophytic fungi and aciduric bacteria.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Papaic digest of soyabean meal</td>
<td>10.000</td>
</tr>
<tr>
<td>Dextrose</td>
<td>40.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>4.8±0.2</td>
</tr>
</tbody>
</table>

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

**Directions**

Suspend 50.0 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

**Principle And Interpretation**

Mycological media are basal media to which antifungal agents may be added for checking their effect on fungi or bacteria to render them selective for isolation and cultivation of fungi. Fungal Broth with low pH is used for saprophytic fungi.

Earlier media for fungi generally relied on an acidic pH to make the media less suitable for the growth of many bacteria (1). Fungal Agar w/low pH is prepared according to the formulation suggested by Huppert and Walker (4). Fungal Agar w/low pH is a selective agar for culturing and enumerating fungi and aciduric bacteria from beverages, poultry (2) and clinical material (3). Fungal Broth w/low pH is similar in composition to Fungal Agar w/low pH, except agar.

Papaic digest of soyabean meal in the medium provides nitrogen, vitamins and minerals necessary to support bacterial growth. Dextrose is a carbon source required for the growth of fungi.

**Quality Control**

**Appearance**

Cream to yellow homogeneous free flowing powder

**Colour and Clarity of prepared medium**

Light amber coloured, clear solution in tubes

**Reaction**

Reaction of 5.0% w/v aqueous solution at 25°C. pH : 4.8±0.2

**pH**

4.60-5.00

**Cultural Response**

M265: Cultural characteristics observed after an incubation at 25-30°C for 48-72 hours (For Trichophyton species longer incubation may be required for upto 7 days)

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Aspergillus brasiliensis</em> ATCC 16404</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td><em>Candida albicans</em> ATCC 10231</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td><em>Lactobacillus acidophilus</em> ATCC 11506</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td><em>Saccharomyces cerevisiae</em> ATCC 9763</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td><em>Saccharomyces uvarum</em> ATCC 28098</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
</tbody>
</table>
**Staphylococcus aureus**  
*ATCC 25923*  
>=10³ inhibited

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

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

**Reference**

Revision : 2 / 2015

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