Malt Yeast Agar

Malt Yeast Agar is recommended for the cultivation and maintenance of yeast and moulds.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malt extract</td>
<td>3.000</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>3.000</td>
</tr>
<tr>
<td>Peptone</td>
<td>5.000</td>
</tr>
<tr>
<td>Glucose</td>
<td>10.000</td>
</tr>
<tr>
<td>Agar</td>
<td>20.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>6.2±0.2</td>
</tr>
</tbody>
</table>

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

**Directions**

Suspend 41 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 121°C for 15 minutes. Mix well and pour into sterile Petri plates.

**Principle And Interpretation**

Media based on malt extract may be considered as general growth substrates due to their richness and nutrient balance. Malt yeast Agar is formulated by Wickerham for the isolation, cultivation and maintenance of yeast and moulds and other aciduric microorganisms(1).

Malt Agar is included in Official Methods of Analysis of AOAC International (2). Malt Yeast Agar is recommended by MTCC for cultivation and maintenance of *Saccharomyces cerevisiae*(3).

Malt Yeast Agar contains malt extract, which provides carbon, protein and nutrient sources required for the growth of microorganisms. Peptone and yeast extract provides nitrogen compounds, vitamin B complex and other growth nutrient.

**Quality Control**

**Appearance**

Cream to brownish yellow homogeneous free flowing powder

**Gelling**

Firm, comparable with 2% Agar gel

**Colour and Clarity of prepared medium**

Light amber coloured clear to slightly opalescent gel forms in tubes or Petri plates

**Reaction**

Reaction of 4.10% w/v aqueous solution at 25°C, pH : 6.2±0.2

**pH**

6.00-6.40

**Cultural Response**

Cultural characteristics was observed after an incubation at 25 - 30°C for 48 - 72 hours.

**Organism**

<table>
<thead>
<tr>
<th>Inoculum (CFU)</th>
<th>Growth</th>
<th>Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspergillus brasiliensis ATCC 16404</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Candida albicans ATCC 10231</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td><em>Saccharomyces cerevisiae</em> ATCC 9763</td>
<td>50-100</td>
<td>&gt;=70%</td>
</tr>
</tbody>
</table>

Please refer disclaimer Overleaf.
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

3. Microbial Type Culture Collection and Gene Bank (MTCC ) Institute of Microbial Technology, Chandigarh.

Revision : 0 / 2014