Wild Yeast Medium

Intended Use:
Recommended for detection of wild yeast.

Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peptone</td>
<td>5.000</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>3.000</td>
</tr>
<tr>
<td>Malt extract</td>
<td>3.000</td>
</tr>
<tr>
<td>Dextrose (Glucose)</td>
<td>10.000</td>
</tr>
<tr>
<td>Basic fuchsin</td>
<td>0.470</td>
</tr>
<tr>
<td>Sodium sulphite</td>
<td>2.920</td>
</tr>
<tr>
<td>Dextrin</td>
<td>0.110</td>
</tr>
<tr>
<td>Crystal violet</td>
<td>0.001</td>
</tr>
<tr>
<td>Agar</td>
<td>20.000</td>
</tr>
<tr>
<td>Final pH ( at 25°C)</td>
<td>6.9±0.2</td>
</tr>
</tbody>
</table>

**Formula adjusted, standardized to suit performance parameters

Directions
Suspend 44.50 grams in 1000 ml purified / distilled water. Boil with constant stirring for 15 minutes. DO NOT AUTOCLAVE. Cool to 45-50°C mix well and pour into sterile Petri plates. Efficacy of the plates can be improved by incubating them to 30°C for 18 hours before use.

Principle And Interpretation
Wild Yeast Medium is used for the detection of Saccharomyces wild yeast. Malt extract, Peptone and yeast extract provide carbon, nitrogen compounds, long chain amino acids, vitamins and other necessary nutrients to support the growth of yeasts. Dextrose is the suitable carbohydrate for the growth of yeasts. Sodium sulphite and basic fuchsin inhibit the gram-positive microorganisms.

The prepared plates darken during incubation. Wild yeasts form pink colonies which may be smooth, mucoid or wrinkled. Brewing yeasts forms a thin haze of micro colonies which blend with the colour of the medium.

Type of specimen
Brewing yeasts

Specimen Collection and Handling
For Brewing yeast samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards (3).

After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions
Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations
1. This medium is general purpose medium and may not support the growth of fastidious organisms.

Please refer disclaimer Overleaf.
Performance and Evaluation
Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

Quality Control

Appearance
Pinkish purple to purple homogeneous free flowing powder

Gelling
Firm, comparable with 2.0% agar gel.

Colour and Clarity
Light pink coloured clear to slightly opalescent gel forms in Petri plates.

Reaction
Reaction of 4.45% aqueous solution at 25°C. pH : 6.9±0.2

Cultural Response
Cultural response observed at 30°C for upto 4 days.(colour of plates darkens during incubation).

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
<th>Recovery</th>
<th>Colour of Colony</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candida albicans ATCC 10231</td>
<td>50-100</td>
<td>luxuriant</td>
<td>&gt;=50%</td>
<td>white to light pink raised colonies</td>
</tr>
<tr>
<td>Candida kruusei ATCC 24408</td>
<td>50-100</td>
<td>luxuriant</td>
<td>&gt;=50%</td>
<td>pink, rough, flat colonies</td>
</tr>
<tr>
<td>Saccharomyces cerevisiae ATCC 9763</td>
<td>50-100</td>
<td>luxuriant</td>
<td>&gt;=50%</td>
<td>pink colonies</td>
</tr>
</tbody>
</table>

Key : (*) Corresponding WDCM numbers.

Storage and Shelf Life
Store between 10-30°C in a tightly closed container and the prepared medium at 20-30°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Use before expiry date on the label. Product performance is best if used within stated expiry period.

Disposal
User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (1,2).

Reference

Disclaimer :
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