Dixon’s Agar (Twin Pack)

**Intended Use:**
Recommended for primary isolation and cultivation of *Malassezia furfur*

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td>-</td>
</tr>
<tr>
<td>Malt extract</td>
<td>36.000</td>
</tr>
<tr>
<td>Peptone</td>
<td>36.000</td>
</tr>
<tr>
<td>Bile Dessicated #</td>
<td>20.000</td>
</tr>
<tr>
<td>Agar</td>
<td>14.500</td>
</tr>
<tr>
<td>Part B</td>
<td>-</td>
</tr>
<tr>
<td>Tween 40</td>
<td>10.000</td>
</tr>
<tr>
<td>Glycerol mono-oleate</td>
<td>5.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>6.0±0.2</td>
</tr>
</tbody>
</table>

**Directions**

Suspend 15ml of fluid Part B in 1000 ml purified / distilled water. Add 106.5 grams of Part A. Mix well and heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates or dispense into tubes for slants.

**Principle And Interpretation**

*Malassezia* is a lipophilic yeast commence in areas rich in sebaceous glands of the human skin and other warm-blooded animals. Media based on malt extract is appreciated by many microbiologists due to their richness and nutrient balance especially for the cultivation of fastidious microorganisms. With acidic pH, they are used for the isolation, cultivation and maintenance of yeast and moulds. *M. furfur* is a lipophilic yeast, therefore in vitro growth must be stimulated by natural oils or other fatty substances. Malt extract and Peptone provides nitrogenous compounds. Low pH favours fungal growth and inhibits contaminating bacteria from test samples.

**Type of specimen**

Clinical samples - Skin scrappings were done from the edges of the lesion

**Specimen Collection and Handling:**

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (1,2).

**Warning and Precautions:**

In Vitro diagnostic Use only. 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 clinical specimens. Safety guidelines may be referred in individual safety data sheets.

**Limitations:**

1. Due to nutritional variation, some strains may show poor growth.
2. Some pathogenic fungi may produce infective spores which are easily dispersed in air.

Please refer disclaimer Overleaf.
Further biochemical tests must be performed for confirmation.

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

**Quality Control**

**Appearance**
Part A : Cream to yellow homogeneous free flowing powder Part B: Colourless to pale yellow viscous solution

**Gelling**
Firm, comparable with 1.45% Agar gel.

**Colour and Clarity of prepared medium**
Brownish yellow coloured, opalescent gel with scum forms in Petri plates

**Reaction**
Reaction of 10.65% w/v aqueous solution of Part A and 1.5% v/v of Part B at 25°C. pH : 6.0±0.2

**pH**
5.80-6.20

**Cultural Response**
Cultural characteristics observed after an incubation at 35-37°C for 40-48 hours.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
<th>Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Candida albicans</em> ATCC</td>
<td>50-100</td>
<td>good-luxuriant</td>
<td>&gt;=50%</td>
</tr>
<tr>
<td>10231(00054*)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Candida glabrata</em> ATCC</td>
<td>50-100</td>
<td>good-luxuriant</td>
<td>&gt;=50%</td>
</tr>
<tr>
<td>15126</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Candida krusei</em> ATCC 24408</td>
<td>50-100</td>
<td>good-luxuriant</td>
<td>&gt;=50%</td>
</tr>
<tr>
<td>750</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Malassezia furfur</em> ATCC</td>
<td>50-100</td>
<td>good-luxuriant</td>
<td>&gt;=50%</td>
</tr>
<tr>
<td>14521</td>
<td></td>
<td></td>
<td></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**
In vitro diagnostic medical device

CE Marking

Storage temperature

Do not use if package is damaged

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