Potato Dextrose Agar Plate

Intended use
Recommended for the isolation and enumeration of yeasts and moulds from water, dairy, other food products and clinical samples.

Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potatoes, infusion from</td>
<td>200.000</td>
</tr>
<tr>
<td>Dextrose</td>
<td>20.000</td>
</tr>
<tr>
<td>Agar</td>
<td>15.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>5.6±0.2</td>
</tr>
</tbody>
</table>

**Formula adjusted, standardized to suit performance parameters

Directions
Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.

Principle And Interpretation

Potato Dextrose Agar is recommended by APHA (9) and F.D.A. (4) for plate counts of yeasts and moulds in the examination of foods and dairy products (3). Potato Dextrose Agar is also used for stimulating sporulation, for maintaining stock cultures of certain dermatophytes and for differentiation of typical varieties of dermatophytes on the basis of pigment production (8). It is also recommended by USP (10), BP (2), EP (3) and JP (6) for growth of fungi. Potato infusion and dextrose promote luxuriant fungal growth. Adjusting the pH of the medium by tartaric acid to 3.5, inhibits the bacterial growth. Heating the medium after acidification should be avoided as it may hydrolyse the agar which can render the agar unable to solidify.

Type of specimen
Food and dairy samples; Water samples; Clinical samples- skin scrapings

Specimen Collection and Handling:

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (5,7). For food and dairy samples, follow appropriate techniques for sample collection and processing as per guidelines (4,9,11). For water samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards. (1)

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

Warning and Precautions

In Vitro diagnostic Use. Read the label before opening the pack. 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. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium

2. Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user’s unique requirement.

3. It is recommended to store the plates at 24-30°C to avoid minimum condensation.

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.

Please refer disclaimer Overleaf.
**Quality Control**

**Appearance**
Sterile Potato Dextrose Agar in 90 mm disposable plates.

**Colour of medium**
Light amber coloured medium

**Quantity of medium**
25 ml of medium in 90 mm disposable plates.

**pH**
5.40-5.80

**Sterility test**
Passes release criteria

**Cultural Response**
Cultural characteristics observed after an incubation at 22 - 25°C for 4 - 5 days.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Growth</th>
<th>Ascospore formation</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Aspergillus brasiliensis</em></td>
<td>luxuriant</td>
<td>Negative</td>
</tr>
<tr>
<td>ATCC 16404 (00053*)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Candida albicans ATCC</em></td>
<td>luxuriant</td>
<td>Negative</td>
</tr>
<tr>
<td>10231 (00054*)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Saccharomyces cerevisiae</em></td>
<td>luxuriant</td>
<td>Positive</td>
</tr>
<tr>
<td>ATCC 9763 (00058*)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Key : * - Corresponding WDCM numbers

**Storage and Shelf Life**
On receipt store between 20-30°C. 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 (5,7).

**Reference**

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Please refer disclaimer Overleaf.
In vitro diagnostic medical device

CE Marking

Storage temperature

20°C - 30°C

Do not use if package is damaged

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