Potato Dextrose Agar

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 (Glucose)</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
Potato Dextrose Agar is a ready to use solid media in glass bottle. The medium is pre-sterilized, hence it does not need sterilization. Medium in the bottle can be melted either by using a pre-heated water bath or any other method. Slightly loosen the cap before melting. When complete melting of medium is observed dispense the medium in tubes as butts / slants or in plates as desired and allow to solidify. If on plate, either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically.

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 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

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
Sterile Potato Dextrose Agar in glass bottle.

Please refer disclaimer Overleaf.
**Colour of medium**
Light amber coloured medium

**Quantity of medium**
100ml of medium in glass bottle.

**Reaction**
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> ATCC 16404 (00053)*</td>
<td>luxuriant</td>
<td>Negative</td>
</tr>
<tr>
<td><em>Candida albicans</em> ATCC 10231 (00054)*</td>
<td>luxuriant</td>
<td>Negative</td>
</tr>
<tr>
<td><em>Saccharomyces cerevisiae</em> ATCC 9763 (00058)*</td>
<td>luxuriant</td>
<td>Positive</td>
</tr>
</tbody>
</table>

**Key** : * - Corresponding WDCM numbers

**Storage and Shelf Life**
On receipt store between 15-25°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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