Potato Dextrose Agar

Intended use
Potato Dextrose Agar is 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
Suspend 39.00 grams in 1000 ml purified/distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well before dispensing. In specific work, when pH 3.5 is required, acidify the medium with sterile 10% tartaric acid. The amount of acid required for 100 ml of sterile, cooled medium is approximately 1 ml. DO NOT HEAT the medium after addition of the acid.

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.

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.

Limitations:
1. Heating the medium after acidification should be avoided as it may hydrolyse the agar which can render the agar unable to solidify.

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
Cream to yellow homogeneous free flowing powder.
**Gelling**
Firm, comparable with 1.5% Agar gel

**Colour and Clarity of prepared medium**
Light amber coloured clear to slightly opalescent gel forms in Petri plates.

**Reaction**
Reaction of 3.9% w/v aqueous solution at 25°C, pH : 5.6±0.2

**pH**
5.40-5.80

**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>Aspergillus brasiliensis ATCC 16404 (00053*)</td>
<td>luxuriant</td>
<td>Negative</td>
</tr>
<tr>
<td>Candida albicans ATCC 10231 (00054*)</td>
<td>luxuriant</td>
<td>Negative</td>
</tr>
<tr>
<td>Saccharomyces cerevisiae ATCC 9763 (00058*)</td>
<td>luxuriant</td>
<td>Positive</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 (5,7).

**Reference**
In vitro diagnostic medical device

CE Marking

Storage temperature

Do not use if package is damaged

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