Potato Dextrose Agar Slant

Intended use
Potato Dextrose Agar is recommended for the isolation and enumeration of yeasts and moulds from water, dairy and other food products.

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
Streak the test inoculum aseptically into the slant and incubate at appropriate conditions.
Incubate the slants at 30-35°C for 18-24 hours.

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).

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

Specimen Collection and Handling:
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
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 slant in glass tube.

Colour of medium
Light amber coloured medium

Quantity of medium
8ml of medium in glass tube.

pH
5.40-5.80

Please refer disclaimer Overleaf.
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>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
On receipt store between 2-8°C 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

Revision : 00 / 2019
Disclaimer:

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