Product Information

70139 Potato Glucose Agar

Recommended for the isolation, and enumeration of yeasts and molds in dairy products and food. This culture medium complies with the recommendations of the APHA for food (1992), the USP (1995) and the FDA (1995).

Composition:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Grams/Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potato extract</td>
<td>4.0</td>
</tr>
<tr>
<td>Dextrose</td>
<td>20.0</td>
</tr>
<tr>
<td>Agar</td>
<td>15.0</td>
</tr>
</tbody>
</table>

Final pH 5.6 +/- 0.2 at 25°C

Store prepared media below 8°C, protected from direct light. Store dehydrated powder, in a dry place, in tightly-sealed containers at 2-25°C.

Directions:
Suspend 39 g in 1 litre of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. In order to suppress bacterial growth, 10% sterile lactic acid or 10% tartaric acid solution can be added for dropping pH to 3.5. Mix well before pouring. The plates are clear and yellowish-brown.

Principle and Interpretation:
Potato extract serves as a source of carbon, nitrogen, minerals, vitamins and other essential growth nutrients. Dextrose acts as source of carbohydrate. Agar is added as the solidifying agent.
The accompanying bacterial flora is suppressed by the pH value of 3.5. The growth of yeasts and moulds are promoted on this medium and the fungi develop typical morphology. 8.4 mg/l Rose bengal can be added to suppress additionally the development of bacteria and restricts the size and the spreading of mould colonies.

Cultural characteristics after 4-5 days at 22-28°C

<table>
<thead>
<tr>
<th>Organisms (ATCC)</th>
<th>Growth</th>
<th>Ascospore formation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspergillus niger (16404)</td>
<td>+++</td>
<td>-</td>
</tr>
<tr>
<td>Saccharomyces cerevisiae (9763)</td>
<td>+++</td>
<td>+</td>
</tr>
<tr>
<td>Penicillium comune (10428)</td>
<td>++</td>
<td>-</td>
</tr>
<tr>
<td>Candida albicans (10231)</td>
<td>+++</td>
<td>-</td>
</tr>
</tbody>
</table>
References:
2. United States Pharmacopeia XXIII, Chapter "Microbial Limit Tests", 1995

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

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