Conn’s Agar

Intended Use:
Recommended for cultivation of fungi.

Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium nitrate</td>
<td>2.000</td>
</tr>
<tr>
<td>Magnesium sulphate</td>
<td>1.200</td>
</tr>
<tr>
<td>Potassium dihydrogen phosphate</td>
<td>2.700</td>
</tr>
<tr>
<td>Maltose</td>
<td>7.200</td>
</tr>
<tr>
<td>Potato starch</td>
<td>10.000</td>
</tr>
<tr>
<td>Agar</td>
<td>15.000</td>
</tr>
</tbody>
</table>

**Formula adjusted, standardized to suit performance parameters

Directions
Suspend 38.10 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 and pour into sterile Petri plates.

Principle And Interpretation
Fungi play a part in the cycle of degeneration of almost all organic matters. By breaking down dead organic material, they continue the cycle of nutrients through ecosystems. They cause spoilage of foodstuffs and some occur as human, animal and plant pathogens. However, some fungi produce substances that can be used as drugs (such as penicillin). Other fungi can be used as food (mushrooms). Conn's Agar is used for the cultivation of fungi (1).

Potato starch and maltose promote luxuriant fungal growth. Potassium nitrate is the source of nitrogen. Phosphate buffers the medium. Magnesium sulphate provides essential ions for the growth of fungi.

Type of specimen
Clinical samples - Blood, nail and skin scrapings; Food samples.

Specimen Collection and Handling:
For clinical samples follow appropriate techniques for handling specimens as per established guidelines (2,3). For food samples, follow appropriate techniques for sample collection and processing as per guidelines (4). 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. This medium is general purpose medium and may not support the growth of fastidious organisms.

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 beige homogeneous free flowing powder
Gelling
Firm, comparable with 1.5% Agar gel.
Colour and Clarity of prepared medium
Light yellow coloured, opaque gel forms in Petri plates

Cultural Response
Cultural characteristics observed after an incubation at 25-30°C for 48-72 hours.

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

Key: *Corresponding WDCM numbers.
# - Formerly known as Aspergillus niger

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 (2,3).

Reference

Revision : 02/2019
In vitro diagnostic medical device

CE Marking

Storage temperature

Do not use if package is damaged

HiMedia Laboratories Pvt. Limited,
23 Vadhani Industrial Estate,
LBS Marg,Mumbai-86,MS,India

CE Partner 4U ,Esdoornlaan 13, 3951
DB Maarn The Netherlands,
www.cepartner 4u.eu

Disclaimer:

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