**Intended use**

Recommended for selective isolation and enumeration of yeasts and moulds from foods, environmental materials and clinical samples.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>HiVeg™ peptone No. 4</td>
<td>5.000</td>
</tr>
<tr>
<td>Dextrose (Glucose)</td>
<td>10.000</td>
</tr>
<tr>
<td>Potassium dihydrogen phosphate</td>
<td>1.000</td>
</tr>
<tr>
<td>Magnesium sulphate</td>
<td>0.500</td>
</tr>
<tr>
<td>Rose bengal</td>
<td>0.050</td>
</tr>
<tr>
<td>Chloramphenicol</td>
<td>0.100</td>
</tr>
<tr>
<td>Agar</td>
<td>15.500</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>7.2±0.2</td>
</tr>
</tbody>
</table>

**Directions**

Suspend 32.15 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. Cool to 45-50°C. Mix well and pour into sterile Petri plates.

**Principle And Interpretation**

Rose Bengal Chloramphenicol HiVeg™ Agar is prepared by using HiVeg™ peptone No. 4 in place of mycological peptone which makes the medium free of BSE/TSE risks. It is the modification of Rose Bengal Chloramphenicol Agar which was formulated originally by Jarvis (3) and further modified by Overcast and Weakley (7). The use of rose bengal in the media having neutral pH was reported by Smith and Dawson (9). HiVeg™ peptone No.4 provides carbon, nitrogen substances, long chain amino acids, vitamins and other essential growth nutrients. Dextrose is the energy source. Chloramphenicol has inhibitory action on gram-negative bacteria. Rose bengal dye suppresses the development of bacteria and reduces the spreading of moulds, controlling size and height of moulds colonies such as Rhizopus species (8). The medium has neutral pH which with antibiotics have noted to be advantageous (5, 6). Rose bengal is taken up by moulds and yeast colonies thereby assisting in enumeration (3). The number of yeasts or moulds is calculated per 1 gram or 1 ml of sample to be tested by multiplying the number of colonies by dilution factor. Colonies of bacteria and yeasts could be confused by appearance and thus should be examined microscopically. Due to the selective properties of this medium and the type of specimen being cultured, some strains of fungi may grow poorly or fail to grow on the complete medium; similarly, some strains of bacteria might not be inhibited or only partially inhibited. Care should be taken not to expose this medium to light, since photo degradation of rose bengal yields compounds that are toxic to fungi (7).

**Type of specimen**

Food samples; Environmental samples, Clinical samples -skin scrapings

**Specimen Collection and Handling**

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (2,4). For food samples, follow appropriate techniques for sample collection and processing as per guidelines (10). After use, contaminated materials must be sterilized by autoclaving before discarding.

**Warning and Precautions**

In Vitro diagnostic Use only. 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. The medium should not be exposed to light, since photo degradation of rose bengal yields compounds that are toxic to fungi.

Quality Control
Appearance
Light yellow to pink homogeneous free flowing powder

Gelling
Firm, comparable with 1.55% Agar gel.

Colour and Clarity of prepared medium
Deep pink coloured clear to slightly opalescent gel forms in Petri plates.

Reaction
Reaction of 3.22% w/v aqueous solution at 25°C. pH: 7.2±0.2

pH
7.00-7.40

Cultural Response
Cultural characteristics observed after an incubation at 25-30°C for 5 days.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspergillus brasiliensis ATCC 16404 (00053*)</td>
<td>50-100</td>
<td>good-luxuriant</td>
</tr>
<tr>
<td>Bacillus subtilis subsp. spizizenii ATCC 6633 (00003*)</td>
<td>&gt;=10⁴</td>
<td>inhibited</td>
</tr>
<tr>
<td>Cladosporium cladosporioides ATCC 11278</td>
<td>50-100</td>
<td>good-luxuriant</td>
</tr>
<tr>
<td>Escherichia coli ATCC 25922 (00013*)</td>
<td>&gt;=10⁴</td>
<td>inhibited</td>
</tr>
<tr>
<td>Enterococcus faecalis ATCC 29212 (00087*)</td>
<td>&gt;=10⁴</td>
<td>inhibited</td>
</tr>
<tr>
<td>Mucor racmosus ATCC 42647</td>
<td>50-100</td>
<td>good-luxuriant</td>
</tr>
<tr>
<td>Pencillium notatum ATCC 10108</td>
<td>50-100</td>
<td>good-luxuriant</td>
</tr>
<tr>
<td>Saccharomyces cerevisiae ATCC 9763</td>
<td>50-100</td>
<td>good-luxuriant</td>
</tr>
</tbody>
</table>

Key: (#) Formerly known as Aspergillus niger
(*) Corresponding WDCM numbers

Storage and Shelf Life
Store the dehydrated and prepared media between 15-25°C in a tightly closed container. 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. 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, 4).
HiMedia Laboratories

Technical Data

Reference


Disclaimer:
User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.