Yeast Malt HiVeg™ Agar (YM HiVeg™ Agar)

**Intended use**
Recommended for isolation and cultivation of yeasts, moulds and other aciduric microorganisms.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>HiVeg™ peptone</td>
<td>5.000</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>3.000</td>
</tr>
<tr>
<td>Malt extract</td>
<td>3.000</td>
</tr>
<tr>
<td>Dextrose (Glucose)</td>
<td>10.000</td>
</tr>
<tr>
<td>Agar</td>
<td>20.000</td>
</tr>
<tr>
<td><strong>Final pH (at 25°C)</strong></td>
<td><strong>6.2±0.2</strong></td>
</tr>
</tbody>
</table>

**Directions**

Suspend 41 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. For preparing selective media acidify the media with pH 3.0 to 4.0 or add antibiotics. DO NOT HEAT the media after addition of acid or antibiotics. Mix well and pour into sterile Petri plates.

**Principle and Interpretation**

Yeast Malt HiVeg™ Agar (YM HiVeg™ Agar) is prepared by replacing peptone with HiVeg™ peptone making the medium free of BSE/TSE associated risks. This can be used for the same purpose of Yeast Malt Agar (YM Agar) which is used in the isolation and cultivation of yeasts, moulds and other aciduric microorganisms (1,2). Fungistatic materials such as sodium propionate and diphenyl can be added to YM Agar to eliminate the moulds, thus permitting enumeration of only yeasts from mixed fungal population. The media is also recommended by APHA (3).

Suspected samples can be grown on Yeast Malt HiVeg™ Broth (MV425), an enrichment medium for yeasts by adding a layer of sterile paraffin oil (about 1 cm) on the surface of inoculated broth. After the growth occurs it should be streaked on YM Agar to obtain isolated colonies of fermentative species. To isolate fermentative as well as oxidative strains, acidified YM HiVeg™ Broth (MV425) is placed on a rotary shaker for 1 or 2 days which favors development of yeast cells while the sporulation of moulds is prevented and yeasts can be isolated by streaking on YM HiVeg™ Agar. Fungistatic materials such as sodium propionate and diphenyl may be added to YM HiVeg™ Agar to eliminate moulds and thus permits enumeration of yeasts from mixed population.

**Type of Specimen**

Clinical samples - Blood, Skin scrapings; Food samples.

**Specimen Collection and Handling:**

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (1,2). For food samples, follow appropriate techniques for sample collection and processing as per guidelines (3).

**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. Further biochemical tests must be carried out for complete identification.
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 2.0% agar gel.

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

Reaction
Reaction of 4.1% w/v aqueous solution at 25°C. pH : 6.2±0.2

pH
6.00-6.40

Cultural Response
Cultural characteristics observed after an incubation at 25-30°C for 40-72 hours.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth at pH 3.4</th>
<th>Recovery at pH 3.4</th>
<th>Growth at pH 6.2</th>
<th>Recovery at pH 6.2</th>
</tr>
</thead>
<tbody>
<tr>
<td># Aspergillus brasiliensis ATCC 16404 (00053*)</td>
<td>50-100</td>
<td>good-luxuriant</td>
<td>&gt;=50%</td>
<td>good-luxuriant</td>
<td>&gt;=50%</td>
</tr>
<tr>
<td>Candida albicans ATCC 10231 (00054*)</td>
<td>50-100</td>
<td>good-luxuriant</td>
<td>&gt;=50%</td>
<td>good-luxuriant</td>
<td>&gt;=50%</td>
</tr>
<tr>
<td>Escherichia coli ATCC 25922 (00013*)</td>
<td>50-100</td>
<td>inhibited</td>
<td>0%</td>
<td>good-luxuriant</td>
<td>&gt;=50%</td>
</tr>
<tr>
<td>Lactobacillus casei ATCC 9595</td>
<td>50-100</td>
<td>poor</td>
<td>20-30%</td>
<td>good-luxuriant</td>
<td>&gt;=50%</td>
</tr>
<tr>
<td>Lactobacillus leichmannii ATCC 4797</td>
<td>50-100</td>
<td>poor</td>
<td>20-30%</td>
<td>good-luxuriant</td>
<td>&gt;=50%</td>
</tr>
<tr>
<td>Saccharomyces cerevisiae ATCC 9763 (00055*)</td>
<td>50-100</td>
<td>good-luxuriant</td>
<td>&gt;=50%</td>
<td>good-luxuriant</td>
<td>&gt;=50%</td>
</tr>
</tbody>
</table>

Key: (#) Formerly known as Aspergillus niger, (*) 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. 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 (1,2).

Reference

Revision : 02 / 2019

Please refer disclaimer Overleaf.
Technical Data

In vitro diagnostic medical device

CE Marking

Storage temperature

10°C - 30°C

Do not use if package is damaged

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

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.