HiCrome Candida Differential Agar

HiCrome Candida Differential Agar is recommended for rapid isolation and identification of Candida species from mixed cultures.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peptone, special</td>
<td>15.000</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>4.000</td>
</tr>
<tr>
<td>Dipotassium hydrogen phosphate</td>
<td>1.000</td>
</tr>
<tr>
<td>Chromogenic mixture</td>
<td>7.220</td>
</tr>
<tr>
<td>Chloramphenicol</td>
<td>0.500</td>
</tr>
<tr>
<td>Agar</td>
<td>15.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>6.3±0.2</td>
</tr>
</tbody>
</table>

**Formula adjusted, standardized to suit performance parameters**

**Directions**

Suspend 42.72 grams in 1000 ml distilled water. Heat, to boiling, to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 50°C and pour into sterile Petri plates.

**Principle And Interpretation**

Perry and Miller (1) reported that Candida albicans produces an enzyme b-N-acetyl- galactosaminidase and according to Rousselle et al (2) incorporation of chromogenic or fluorogenic hexosaminidase substrates into the growth medium helps in identification of Calbicans isolates directly on primary isolation. HiCrome Candida Differential Agar is a selective and differential medium, which facilitates rapid isolation of yeasts from mixed cultures and allows differentiation of Candida species namely C.albicans, C.krusei, C.tropicalis and C.glabrata on the basis of colouration and colony morphology. On this medium results are obtained within 48 hours and it is useful for the rapid and presumptive identification of common yeasts in Mycology and Clinical Microbiology Laboratory.

Peptone special and yeast extract provides nitrogenous, carbonaceous compounds and other essential growth nutrients. Phosphate buffers the medium well. Chloramphenicol suppresses the accompanying bacterial flora. Calbicans appear as light green coloured smooth colonies, C.tropicalis appear as blue to metallic blue coloured raised colonies. C.glabrata colonies appear as cream to white smooth colonies, while C. krusei appear as purple fuzzy colonies.

**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 amber coloured, clear to slightly opalescent gel forms in Petri plates

**Reaction**
Reaction of 4.27% w/v aqueous solution at 25°C. pH : 6.3±0.2

**pH**
6.10-6.50

**Cultural Response**
M1297A: Cultural characteristics observed after an incubation at 30°C for 40-48 hours.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
<th>Recovery</th>
<th>Colour of Colony</th>
</tr>
</thead>
</table>

Please refer disclaimer Overleaf.
Candida albicans ATCC 10231 50-100 good-luxuriant >=50% light green
Candida glabrata ATCC 15126 50-100 good-luxuriant >=50% cream to white
Candida krusei ATCC 24408 50-100 good-luxuriant >=50% purple, fuzzy
Candida tropicalis ATCC 750 50-100 good-luxuriant >=50% blue to purple
Escherichia coli ATCC 25922 >=10³ inhibited 0%
Staphylococcus aureus ATCC 25923 >=10³ inhibited 0%

Storage and Shelf Life
Store dehydrated powder and prepared medium at 2-8°C. Use before expiry period on the label.

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.