CHROMagar™ Candida

MEDIUM PURPOSE
Chromogenic medium for the detection of Candida spp.
More commonly, Candida species are involved in superficial oropharyngeal and urogenital infections. “Early diagnosis is essential for early effective management of the patients.” (WHO Guidelines on Standard Operating Procedures for Laboratory Diagnosis of HIV-Opportunistic Infections).
Although C.albicans remains the major species involved, other types such as C.tropicalis, C.krusei or C.glabrata have increased proportionally as new antifungal agents have worked very effectively against C.albicans.

COMPOSITION
The product is composed of a powder base.

<table>
<thead>
<tr>
<th>Product</th>
<th>Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total g/L</td>
<td>47.7 g/L</td>
</tr>
<tr>
<td>Composition g/L</td>
<td></td>
</tr>
<tr>
<td>Agar 15.0</td>
<td></td>
</tr>
<tr>
<td>Peptone 10.2</td>
<td></td>
</tr>
<tr>
<td>Chloramphenicol 0.5</td>
<td></td>
</tr>
<tr>
<td>Chromogenic mix 22.0</td>
<td></td>
</tr>
</tbody>
</table>

Aspect | Powder Form

STORAGE | 15-30°C

FINAL MEDIA pH | 6.1 +/- 0.2

PREPARATION (Calculation for 1L)

**Step 1 Preparation of the mix**
- Disperse slowly 47.7 g of powder base in 1L of purified water.
- Stir until agar is well thickened.
- Heat and bring to boiling (100°C) while swirling or stirring regularly. DO NOT HEAT TO MORE THAN 100°C. DO NOT AUTOCLAVE AT 121°C.
  Warning 1: If using an autoclave, do so without pressure.
  Advice 1: For the 100°C heating step, mixture may also be brought to a boil in a microwave oven: after initial boiling, remove from oven, stir gently, then return to oven for short repeated bursts of heating until complete fusion of the agar grains has taken place (large bubbles replacing foam).

**Step 2 Pouring**
- Cool in a water bath to 45-50°C, swirling or stirring gently.
- Pour medium into sterile Petri dishes.
- Let it solidify and dry.

**Storage**
- Store in the dark before use.
- Prepared media plates can be kept for one day at room temperature.
- Plates can be stored for up to two months under refrigeration (2/8°C) if properly prepared and protected from light and dehydration.

INOCULATION
Related samples can be processed by direct streaking on the plate.
- If the agar plate has been refrigerated, allow to warm to room temperature before inoculation.
- Streak sample onto plate.
- Incubate in aerobic conditions at 30-37°C for 48 hours.

Typical Samples
- e.g. skin, sputum, urine, vaginal specimens
- Direct streaking or spreading technique

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- Direct streaking or spreading technique
**INTRODUCTION**

**CHROMagar™ Candida**

**INTERPRETATION**

<table>
<thead>
<tr>
<th>Microorganism</th>
<th>Typical colony appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>C. albicans</em></td>
<td>→ green</td>
</tr>
<tr>
<td><em>C. tropicalis</em></td>
<td>→ metallic blue</td>
</tr>
<tr>
<td><em>C. krusei</em></td>
<td>→ pink, fuzzy</td>
</tr>
<tr>
<td><em>C. kefyr, C. glabrata</em></td>
<td>→ mauve-brown</td>
</tr>
<tr>
<td>Other species</td>
<td>→ white to mauve</td>
</tr>
</tbody>
</table>

**Typical colony appearance**

- *C. albicans*
- *C. krusei*
- *C. tropicalis*
- *C. glabrata*

The pictures shown are not contractual.

**LIMITATIONS**

- Definite identification requires additional testing.

**QUALITY CONTROL**

Please perform Quality Control according to the use of the medium and the local QC regulations and norms.

Good preparation of the medium can be tested, isolating the ATCC strains below:

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<th>Microorganism</th>
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<tr>
<td><em>C. krusei</em> ATCC® 14243</td>
<td>→ pink and fuzzy</td>
</tr>
<tr>
<td><em>C. albicans</em> ATCC® 60193</td>
<td>→ green</td>
</tr>
<tr>
<td><em>C. tropicalis</em> ATCC® 1369</td>
<td>→ metallic blue</td>
</tr>
<tr>
<td><em>C. glabrata</em> ATCC® 2001</td>
<td>→ mauve</td>
</tr>
<tr>
<td><em>E. coli</em> ATCC® 25922</td>
<td>→ inhibited</td>
</tr>
</tbody>
</table>

**WARNINGS**

- Do not use plates if they show any evidence of contamination or any sign of deterioration.
- Do not use the product beyond its expiry date or if product shows any evidence of contamination or any sign of deterioration.
- For *in vitro* diagnostic use. This laboratory product should be used only by trained personnel in compliance with good laboratory practices.
- Any change or modification in the procedure may affect the results.
- Any change or modification of the required storage temperature may affect the performance of the product.
- Unappropriate storage may affect the shelf life of the product.
- Recap the bottles/vials tightly after each preparation and keep them in a low humidity environment, protected from moisture and light.
- For a good microbial detection: collection and transport of specimen should be well handled and adapted to the particular specimen according to good laboratory practices.

**DISPOSAL OF WASTE**

After use, all plates and any other contaminated materials must be sterilized or disposed of by appropriate internal procedures and in accordance with local legislations. Plates can be destroyed by autoclaving at 121°C for at least 20 minutes.

**REFERENCES**

Please refer to our website page «Publications» for scientific publications about this particular product.

Web link: http://www.chromagar.com/publication.php

**IFU/LABEL INDEX**

- Quantity of powder sufficient for X liters of media
- Expiry date
- Required storage temperature
- Store away from humidity

**Need some Technical Documents?**

Available for download on www.CHROMagar.com

- Certificate of Analysis (CoA) — One per Lot
- Material Safety Data Sheet (MSDS)

**Ordering References**

<table>
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<th>Weight</th>
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<tbody>
<tr>
<td>47.7gr</td>
<td>CA220</td>
</tr>
<tr>
<td>238.5gr</td>
<td>CA222</td>
</tr>
<tr>
<td>1192.5gr</td>
<td>CA223-25</td>
</tr>
<tr>
<td>10kg</td>
<td>CA223-10kg</td>
</tr>
</tbody>
</table>

**Pack Size**

- 1000 ml = 50 Tests of 20ml
- 5000 ml = 250 Tests of 20ml
- 25L = 1250 Tests of 20ml
- 10 kg = 10450 Tests of 20ml

**CHROMagar™ and Rambach™ are trademarks created by Dr. A. Rambach**

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