CHROMagar™ Candida

MEDIUM PURPOSE
Chromogenic medium for the detection of Candida spp.
More commonly, Candida species are involved in oropharyngeal, digestive, urogenital infections and wet skin wounds. “Early diagnosis is essential for effective management of the patients.”

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.

Product = Pack

| Total g/L | 47.7 g/L |
| Agar 15.0 | Peptone 10.2 |
| Chloramphenicol 0.5 | Chromogenic mix 22.0 |

FINAL MEDIA pH 6.1 +/- 0.2

STORAGE 15-30 °C

PREPARATION (Calculation for 1 L)

Step 1 Preparation of the mix
- Disperse slowly 47.7 g of powder base in 1 L 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.

REFERENCES

Pack Size

| 5000 mL | 25 Tests of 20 mL |
| 25 L | 125 Tests of 20 mL |
| 10 kg | 10 450 Tests of 20 mL |

Ordering References

| Product | Weight |
| CA222 | 238.5 g |
| CA223-25 | 1192.5 g |
| CA223-10kg | 10 kg |

Instructions For Use
For Research Use only (RUO).
Not for use in diagnostic procedures.
CHROMagar™ Candida

SPECIMEN COLLECTION AND HANDLING
CHROMagar™ Candida can be used with the following specimens: Blood, skin, sputum, throat, urine, ears, stools and vaginal specimens.

Use of transport devices approved for collection of such specimens is recommended.

MATERIAL REQUIRED BUT NOT PROVIDED
Standard microbiological laboratory material for culture media preparation, control, streaking, incubation and waste disposal.

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 35-37 °C for 20-48 hours.

INTERPRETATION

<table>
<thead>
<tr>
<th>Microorganism</th>
<th>Typical colony appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. albicans</td>
<td>green</td>
</tr>
<tr>
<td>C. tropicalis</td>
<td>metallic blue</td>
</tr>
<tr>
<td>C. krusei</td>
<td>pink, fuzzy</td>
</tr>
<tr>
<td>C. kefyr, C. glabrata</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. glabrata

C. tropicalis

The pictures shown are not contractual.

PERFORMANCE

In the following study, 382 pure strains and 339 samples (vaginal, oral and anorectal swabs) were tested and read after 48 h incubation at 37 °C.

<table>
<thead>
<tr>
<th>CHROMagar™ Candida</th>
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</thead>
<tbody>
<tr>
<td>Sensibility</td>
</tr>
<tr>
<td>Specificity</td>
</tr>
<tr>
<td>NPV</td>
</tr>
<tr>
<td>PPV</td>
</tr>
</tbody>
</table>

* Data obtained from the study «CHROMagar™ Candida, a new differential isolation medium for presumptive identification of clinically important candida species» Odds F. et al. 1994, Journal of Clinical Microbiology, 32 : 1923-1929

LIMITATIONS AND COMPLEMENTARY TESTS
• 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 following ATCC strains:

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

WARNINGS AND PRECAUTIONS
• For Research Use Only (RUO). Not for use in diagnostic procedures.
• This laboratory product should be used only by trained personnel (healthcare professional, etc). Wear appropriate protective clothing, gloves and eye/face protection and handle appropriately with procedures and good laboratory practices.
• Use of the medium may be difficult for people who have problems recognising colours.
• 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.
• Culture media should not be used as manufacturing material or components.
• Do not ingest or inhale the product.
• Do not use the product after the expiry date.
• Do not use the product if it show any evidence of contamination or any sign of deterioration.
• Do not use the product if the packaging is damaged.
• 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 tightly after each preparation and keep them in a low humidity environment, protected from moisture and light.
• Reading and interpretation should be performed using isolated colonies.
• Interpretation of the test results should be made taking into consideration colonial and microscopic morphology and if necessary, the results of any other tests performed.
• Laboratory, chemical or biohazardous wastes must be handled and discarded in accordance with all local and national regulations.
• For hazard and precaution recommendations related to some chemical components in this medium, please refer to the pictogram(s) mentioned on the labels. The Safety Data Sheet (SDS) is available on www.chromagar.com
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.

LITERATURE 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

REF  Catalogue reference
Consult instructions for use
Quantity of powder sufficient for X liters of media
Expiry date
Required storage temperature
Store away from humidity
Protect from light
Manufacturer