CHROMagar™ Candida

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

ENGLISH

Instructions For Use

Chromogenic medium for isolation and differentiation of major clinical-significant *Candida* species

REFERENCES

Pack Size			Ordering References	
5000 mL	=	250 Tests of 20 mL	CA222	Weight: 238.5 g
25 L	=	1250 Tests of 20 mL	CA223-25	Weight: 1192.5 g
10 kg	=	10 450 Tests of 20 mL	CA223-10kg	Weight: 10 kg

INTENDED USE

CHROMagar™ Candida is a selective chromogenic culture medium intended for use in the qualitative direct detection, differentiation and presumptive identification of *Candida* species. The test is performed with swabs from skin, throat, ears and vaginal specimens as well as sputum, urine and stools samples, in parallel to cultures on Sabouraud agar, to aid in the Candidiasis diagnosis. Results can be interpreted after 20-48 h of aerobic incubation at 35-37 °C.
Further microbiological testing or epidemiological typing are needed.
A lack of growth or the absence of colonies on CHROMagar™ Candida does not preclude the presence of *Candida.*
CHROMagar™ Candida is not intended to diagnose infection nor to guide nor monitor treatment for infections.

COMPOSITION

The product is composed of a powder base.

Product	=	Pack
Total g/L		47.7 g/L
Composition g/L		Agar 15.0 Peptone 10.2 Chloramphenicol 0.5 Chromogenic mix 22.0
Aspect		Powder Form
STORAGE		**15-30 °C**
FINAL MEDIA pH		6.1 +/- 0.2

Need some Technical Documents?

Available for download on www.CHROMagar.com

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

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.

CHROMagar™ Candida

SPECIMEN COLLECTION AND HANDLING

CHROMagar™ Candida can be used with the following specimens: Swabs from skin, throat, ears and vaginal specimens, sputum, urine and stools.

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

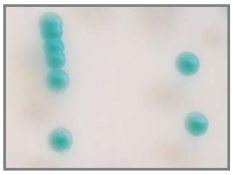
Related samples can be processed by direct streaking on the plate.

- 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

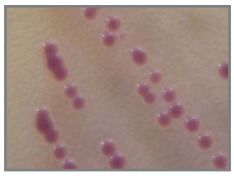
Microorganism	Typical colony appearance
C. albicans	→ green
C. tropicalis	→ metallic blue
C. krusei	→ pink, fuzzy
C. kefyr, C. glabrata	→ mauve-brown
Other species	→ white to mauve

Typical colony appearance

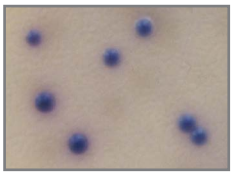


C. albicans

C. krusei



C. glabrata



C. tropicalis

The pictures shown are not contractual.

PERFORMANCE

	Analytical data *	Clinical data **
	Sensitivity & Specificity	CHROMagar™ Candida Sensitivity & Specificity
C. albicans	100 %	96.6 % / 97.9 %
C. tropicalis	97.9 % / 98.8 %	100 % / 98.5 %
C. krusei	100 %	-
C. glabrata	97.7 % / 98.4 %	100 %

* Data obtained after a 48 h incubation at 30 °C in aerobic conditions in the study "A comparison of methods for yeast identification including CHROMagar Candida, Vitek system YBC and a traditional bio chemical method". Huang *et al.*, 2001. *Chinese Med. J.*

** Data obtained after a 48 h incubation at 37 °C in aerobic conditions with 127 clinical specimens from patients in the study "Evaluation of chromogenic media and seminested PCR in the identification of Candida species". Daef *et al.*, 2014. *Brazilian J. Microbiol.*

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:

Microorganism	Typical colony appearance
C. krusei ATCC® 14243	→ pink and fuzzy
C. albicans ATCC® 60193	→ green
C. tropicalis ATCC® 1369	→ metallic blue
C. glabrata ATCC® 2001	→ mauve
E. coli ATCC® 25922	→ inhibited

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

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

CHROMagar™
The Chromogenic Media Pioneer

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