

CHROMagar™ Candida Plus Agar | Ready-to-use Media

Effective Date: 15/11/2024

REF FP90C5004a product by **Biomed MDX**

Intended Use:

CHROMagar™ Candida Plus is a specialized growth medium that enables the isolation, differentiation, and presumptive identification of various *Candida* species, including the pathogen *C. auris*. This medium is used to analyze samples from various body sites and fluids, and it complements standard Sabouraud agar cultures in the diagnosis of Candidiasis.

Principle of the Procedure:

Candida Plus agar is a specialized chromogenic medium designed for the isolation, differentiation, and presumptive identification of various *Candida* species, including the clinically significant *Candida auris*. The principle of this medium relies on a two-pronged approach: selective agents and chromogenic substrates. Selective agents within the agar inhibit the growth of most bacteria and some fungi, creating an environment that favors the growth of the *Candida* species. Simultaneously, chromogenic substrates are incorporated into the medium. These substrates react differently with enzymes produced by various *Candida* species, resulting in distinct color changes in the resulting colonies. Further microbiological identification tests are necessary for definitive confirmation and diagnosis of specific microorganisms.

Product Summary:

CHROMagar™ Candida Plus utilizes a sophisticated chromogenic technology, where specific chromogenic substrates within the agar react with enzymes produced by various *Candida* species. This interaction releases colored compounds, causing *Candida* colonies to exhibit distinct hues. This color differentiation, driven by the specific chromogens, allows for the easy visual distinction of clinically relevant *Candida* species.

Formulation* (PER LITER):

Peptones	11.0g	Agar	15.0g
Chromogenic and selective mix	24.9g		

pH 6.1 +/- 0.2

*Adjust and/or supplemental as required to meet performance criteria

Procedure

Materials Provided

90mm Candida Plus Agar.

Materials Required But Not Provided

Ancillary culture media, reagents, and laboratory equipment as required.

Test Procedure

1. Inoculate and streak the specimen as soon as possible after it is received in the laboratory with an aseptic technique.
2. Incubate at $35 \pm 2^{\circ}\text{C}$ for 24 to 48 hours.
3. Observe the result according to user requirements.
4. Dispose of all used reagents and contaminated materials as infectious waste. Laboratories must handle and dispose of all waste safely according to regulations.

Results

Examine for colonies exhibiting colonial morphology. Appropriate biochemical or immunological tests may be required for final identification

Quality Control

Inoculate representative samples with the following strains. Incubate the inoculated plates at $35 \pm 2^{\circ}\text{C}$ for 24 to 48 hrs. to allow colonies to develop on the medium.

Strains	ATCC®	Growth Results
<i>Candida albicans</i>	60193	Growth; Green-blue
<i>Candida tropicalis</i>	1369	Growth; Metallic blue with pink halo
<i>Candida krusei</i>	14243	Growth; Pink and fuzzy
<i>Candida glabrata</i>	2001	Growth; Mauve
<i>Candida auris</i>	MYA-5001	Growth; Light blue with blue halo
<i>Escherichia coli</i>	25922	No growth
Uninoculated plate	-	No growth

Transportation:

Temperature fluctuations may occur during transportation. However, these fluctuations do not affect the performance, quality, or safety of the media.

Storage and Shelf Life:

Upon receipt, store plates at 2 to 8°C, in dark and light sensitive areas, in their original sleeve wrapping until just before use. Avoid freezing and overheating.

The plates may be inoculated up to the expiration date (see package label) and incubated for the recommended incubation times.

Warning and Precautions:

For in vitro diagnostic use. For Professional Use Only. Do Not Reuse.

Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration.

Limitations of the Procedure

This medium is for laboratory use only and is not intended for the diagnosis of disease or other conditions. Identifications are presumptive and colonies should be identified using appropriate methods

Reference

1. Tamura, T., Alshahni, M. M., & Makimura, K. (2022). Evaluation of CHROMagar™ Candida Plus chromogenic agar for the presumptive identification of *Candida auris*. *Microbiology and Immunology*, 66(6), 292-298.

Packaging Symbol

Symbol	Definition
	Catalogue number
	In Vitro Diagnostic Medical Device
	Batch code
	Date of manufacture
	Temperature limit
	Use-by date
	Keep away from sunlight
	Do not re-use
	Fragile, handle with care
	Consult instructions for use or consult electronic instructions for use
	Do not use if packaging damaged and consult instructions for use
	Manufacturer

Further Information:

For further information please contact your Biomed MDX representative.

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