iChrome™ Candida Agar (ic27012)

Chromogenic medium for isolation of *Candida* sp.

Industry: Clinical

Principles & Uses

ichrome™ Candida Agar, an innovative alternative to conventional media, is designed for *Candida* species detection and isolation. This versatile medium addresses the challenge of identifying various *Candida* species with different infection profiles. *Candida albicans* is a common cause of opportunistic fungal infections, but *Candida tropicalis*, *Candida glabrata*, and *Candida krusei* can also pose health risks. Accurate and swift identification is crucial for effective treatment, particularly considering the emergence of multidrug-resistant *Candida auris*.

The medium's components play essential roles. Glucose serves as a fermentable carbohydrate, providing energy. Yeast extract offers vital nitrogen, vitamins, minerals, and amino acids for growth. Chloramphenicol, a stable and broad-spectrum antibiotic, aids in isolating pathogenic fungi by inhibiting contaminating bacteria. Bacteriological agar solidifies the medium. This medium's unique chromogenic mixture enables easy differentiation of *Candida* spp. Results appear as distinct, colored colonies on a single plate.

iChrome™ Candida Agar facilitates the rapid isolation of yeasts from mixed cultures and distinguishes *Candida* species based on colony coloration and morphology. The colonies exhibit unique colors: green for *Candida albicans*, and pink-brown for *Candida krusei*. Results are available within 48 hours, making it invaluable in mycology and clinical microbiology laboratories.

Composition (gr/L)

Yeast Extract 5, Glucose 20, Agar 14.8, Chloramphenicol 0.2, Chromogenic Mix 0.1.

Final pH at 25°C 6.6 ± 0.2

Preparation from dehydrated Powder

Add 20 g of the powder in 500 ml of distilled water. Mix thoroughly. Autoclave at 121°C for 15 minutes. Aseptically add one vial of the iChrome™ Candida Supplement at 45-50°C and mix well. Pour into plates.

Quality Control

Dehydrated Appearance: Light beige, free-flowing, homogeneous.

Prepared Appearance: Light yellow, slightly opalescent.

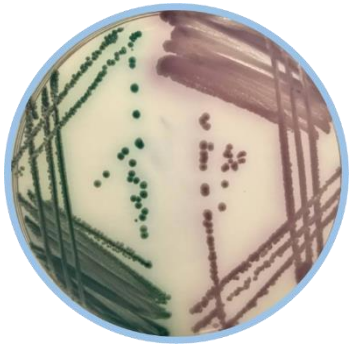
Reaction of 4.0% Solution at 25°C: pH 6.6 ± 0.2

Cultural Response

Cultural characteristics were observed after incubation at 25 ± 2°C for 4 days.

Organism (ATCC*)	Recovery	Colony Color
Candida krusei (34135)	Good	Pink-Brown
Candida albicans (10231)	Good	green
Escherichia coli (25922)	Inhibition	-
Staphylococcus aureus (25923)	Inhibition	-

*ATCC is a registered trade mark of the American Type Culture Collection.



C. krusei with pink-brown colonies (right). *C. albicans* with green colonies (left).

Storage

Keep the container at 15-30 °C. Store prepared medium and supplement at 2-8 °C.