

Yeast Glucose Chloramphenicol Agar, YGC Agar (i23204)

Selective agar for isolating and counting yeasts and molds in milk and milk products.

Industry: Dairy products / Antimicrobial susceptibility testing

Principles & Uses

Yeast Glucose Chloramphenicol Agar, also known as YGC Agar, endorsed by APHA and the International Dairy Federation, is a nutrient-rich medium that selectively inhibits bacteria using chloramphenicol, ensuring improved recovery of acid-sensitive fungal cells. This method offers superior control over bacterial interference and is particularly effective in suppressing accompanying bacterial flora. The addition of chloramphenicol, an antibiotic, makes the medium fully autoclavable and stable for an extended period.

This antibiotic-based method is preferred for its ability to recover injured fungal cells effectively. The medium's components include yeast extract for essential nutrients, glucose as a fermentable carbohydrate, and chloramphenicol for inhibiting contaminating bacteria, ensuring a heat-stable and broad antibacterial spectrum.

Composition (gr/L)

Yeast extract 5 g, D (+) glucose 20 g, Chloramphenicol 0.1 g, Agar 14.9 g.

Final pH at 25°C 6.6 ± 0.2

Preparation from dehydrated Powder

Suspend 40 g in 1 liter of distilled water and mix thoroughly. Autoclave at 121°C for 15 minutes.

Quality Control

Dehydrated Appearance: Beige, free-flowing, homogeneous.

Prepared Appearance: Light amber, slightly opalescent.

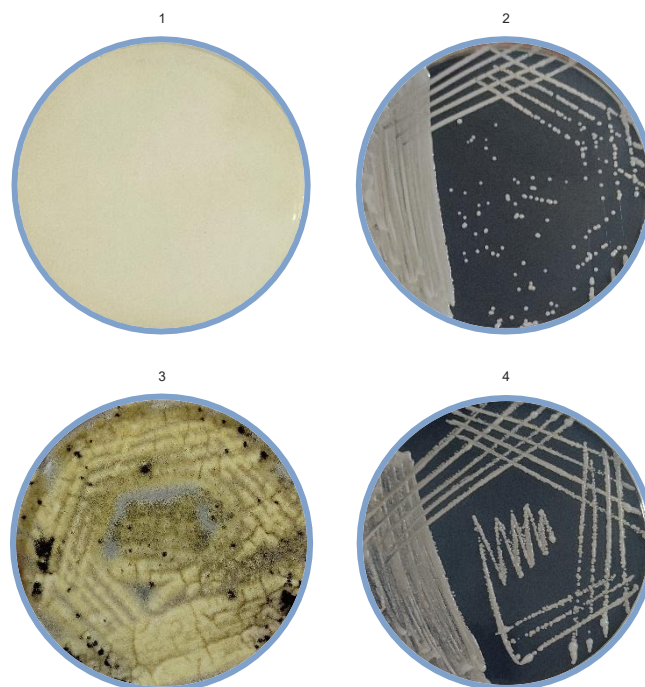
Reaction of 4.0% Solution at 25°C: pH 6.6 ± 0.2

Cultural Response

The medium was inoculated with the organisms listed below. Cultural characteristics were observed after incubation at 25 ± 2°C for 4 days.

Organism (ATCC*)	Recovery
<i>Saccharomyces cerevisiae</i> (9763)	Good
<i>Candida albicans</i> (10231)	Good
<i>Escherichia coli</i> (25922)	Inhibition
<i>Staphylococcus aureus</i> (25923)	Inhibition

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



1: Prepared Culture Media. 2: *Candida albicans*. 3: *Aspergillus niger*. 4: *Saccharomyces cerevisiae*. The background of cultured plated are darkened for better visibility of colonies.

Storage

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