

# YGC Agar

## (Yeast Extract Glucose Chloramphenicol Agar FIL-IDF)

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

This culture medium complies with the recommendations of the International Dairy Federation (Internationaler Milchwirtschaftsverband) (1990), the International Organization for Standardization (ISO), the DIN Norm 10186 for the examination of milk and the German recommendations for food examination acc. to § 35 LMBG.

### Mode of Action

The culture medium contains chloramphenicol to suppress accompanying bacterial flora. Unlike other similar culture media, which contain antibiotics (e.g. Oxytetracycline Glucose Yeast Agar), it has the advantage of being fully autoclavable. Once prepared, it is stable for a long period of time - at least 4 months according to ENGEL (1982).

### Typical Composition (g/litre)

Yeast extract 5.0; D(+)-glucose 20.0; chloramphenicol 0.1; agar-agar 14.9.

### Preparation

Suspend 40 g/litre and autoclave (15 min at 121 °C).

pH: 6.6 ± 0.2 at 25 °C.

The plates are clear and yellowish.

### Application and Evaluation

The culture medium is usually inoculated using the poured plate method and incubated aerobically for up to 5 days at 25 °C aerobically. The yeast and mould colonies are then counted.

### Literature

Bundesgesundheitsamt: Amtliche Sammlung von Untersuchungsverfahren nach § 35 LMBG. - Beuth Verlag Berlin, Köln.

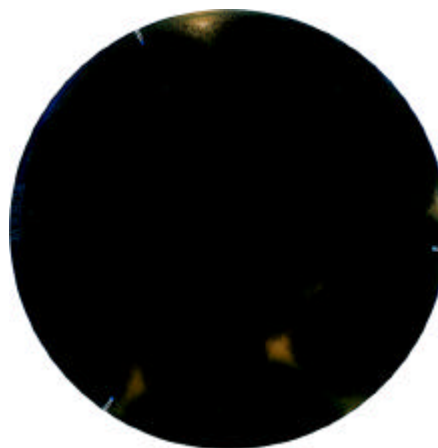
DIN Deutsches Institut für Normung e.V.: Mikrobiologische Milchuntersuchung. Bestimmung der Anzahl von Hefen und Schimmelpilzen. Referenzverfahren. - **DIN 10186**.

International Organization for Standardization (ISO): Milk and milk products - Enumeration of yeast and moulds - Colony count technique at 25 °C. - **International Standard ISO/DIS 6611** (1992).

Internationaler Milchwirtschaftsverband: Milch und Milchprodukte - Zählung von Hefen und Schimmelpilzen - Koloniezählung bei 25 °C. - **Internationaler IDF-Standard 94** (1990).

### Ordering Information

Product	Merck Cat. No.	Pack size
YGC Agar (Yeast Extract Glucose Chloramphenicol Agar FIL-IDF)	1.16000.0500	500 g



*Aspergillus niger*  
ATCC16404



*Saccharomyces cerevisiae*  
ATCC9080

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### Quality control

Test strains	Growth
Geotrichum candidum DSMZ 1240	good / very good
Penicillium commune ATCC 10428.	good / very good
Aspergillus niger ATCC 16404	good / very good

### Quality control (sprial plating method)

Test strains	Inoculum (cfu/ml)	Recovery rate %
Candida albicans ATCC 10231	$10^3$ - $10^5$	$\geq 70$
Saccharomyces cerevisiae ATCC 9763	$10^3$ - $10^5$	$\geq 70$
Saccharomyces cerevisiae ATCC 9080	$10^3$ - $10^5$	$\geq 70$
Escherichia coli ATCC 25922	$> 10^5$	$\leq 0.01$
Bacillus cereus ATCC 11778	$> 10^5$	$\leq 0.01$
Staphylococcus aureus ATCC 25923	$> 10^5$	$\leq 0.01$