

Product Name : Yeast Glucose Chloramphenicol Agar

Selective medium for yeasts and moulds isolation and enumeration in milk and foods.

TYPICAL FORMULA (G/L)

Yeast Extract 5.0
Glucose20.0
Chloramphenicol0.1
Agar18.0
Final pH = 6.6 ± 0.2 at 25°C.

DIRECTIONS

Suspend 43.1 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Dispense into final containers. Sterilize in autoclave at 121°C for 15 minutes.

DESCRIPTION

Yeast Glucose Chloramphenicol Agar is a selective medium for isolation and enumeration of yeasts and moulds in milk and foods. The selectivity of medium is due to chloramphenicol that inhibits the bacterial growth.

TECHNIQUE

Inoculate the specimen spreading on the surface of the solidified medium using a sterile loop. Incubate at 36 ± 1°C for 18-24 hours. For enumeration, pipette 1 mL of each dilution of the sample into a Petri dish. Add 15-20 mL of sterile molten medium to each dish and mix thoroughly. Incubate at 25 ± 2°C for 4 days.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: beige.

Prepared medium

Appearance: clear to slight opalescent.

Color: light amber.

Incubation conditions: 25 ± 2°C / up to 4 days.

Microorganism	ATCC	Growth
<i>Aspergillus niger</i>	16404	good
<i>Escherichia coli</i>	25922	inhibited
<i>Candida albicans</i>	10231	good
<i>Saccharomyces cerevisiae</i>	9763	good

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STORAGE

The powder is very hygroscopic: store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-6°C

REFERENCES

1. International Dairy Federation. Standard Method ISO/DIS 6611.
2. Frank, J.F., G.L. Christen, and L.B. Bullerman. (1993). Tests for groups of microorganisms, p.281-283. In R.T. Marshal, (ed.), Standard methods for the examination of dairy products, 16th ed. American Public Health Association, Washington, D.C.
3. ISO 7954: 1987. Microbiology – General guidance for enumeration of yeasts and moulds. Colony count technique at 25°C.

PACKAGING

Cat. No : MB-Y1070 Yeast Glucose Chloramphenicol Agar	500 G
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