
SABOURAUD CHLORAMPHENICOL AGAR

DETECTION AND ENUMERATION OF YEASTS AND MOLDS

1 INTENDED USE

Sabouraud Chloramphenicol Agar is recommended for the isolation of yeasts and molds, especially when the samples are highly contaminated with bacteria.

2 PRINCIPLES

Peptic digest of Meat is the nitrogen source for growth.

Glucose is an energy source.

Chloramphenicol is a heat-stable, broad spectrum antibiotic which inhibits the development of contaminating microflora.

The acid pH favors the growth of yeasts and molds.

3 TYPICAL COMPOSITION

The composition can be adjusted in order to obtain optimal performance.

For 1 liter of media :

- Peptic digest of Meat..... 10,0 g
- Glucose 20,0 g
- Chloramphenicol 0,5 g
- Bacteriological agar..... 15,0 g

pH of the ready-to-use media at 25°C : 5,7 ± 0,2.

4 PREPARATION

- Dissolve 45,5 g of dehydrated media (BK027) in 1 liter of distilled or demineralized water.
- Slowly bring to boiling, stirring with constant agitation until complete dissolution.
- Dispense in tubes or flasks.
- Sterilize in an autoclave at 121°C for 15 minutes.
- Cool and maintain the media in a molten state at 44-47 °C.

✓ **Reconstitution :**
45,5 g/L

✓ **Sterilization :**
15 min at 121 °C

Note :

Excessive heating of the medium will denature the agar in an acid pH, thus resulting in a medium which is too soft.

5 INSTRUCTIONS FOR USE

- Transfer 1 mL of the sample to analyze or its serial dilutions to the empty Petri plate.
- Pour roughly 15 mL of molten media, per plate.
- Homogenize by swirling.
- Let solidify on a cold, flat surface.
- Incubate at 25-30 °C for 3 to 5 days.

✓ **Inoculation :**
1 mL in pour plates

✓ **Incubation :**
3 to 5 days at 25-30 °C

6 RESULTS

Separately enumerate yeast colonies and molds.

7 QUALITY CONTROL

Dehydrated media : cream-white powder, free-flowing and homogeneous.

Prepared media : amber agar.

Typical culture response after 3 to 5 days of incubation at 30 °C (NF EN ISO 11133) :

Microorganisms		Growth (Productivity Ratio : P_R)
<i>Saccharomyces cerevisiae</i>	WDCM 00058	$P_R \geq 50 \%$
<i>Candida albicans</i>	WDCM 00054	$P_R \geq 50 \%$
<i>Aspergillus brasiliensis</i>	WDCM 00053	$P_R \geq 50 \%$
<i>Escherichia coli</i>	WDCM 00013	Inhibited
<i>Bacillus subtilis</i>	WDCM 00003	Inhibited

8 STORAGE / SHELF LIFE

Dehydrated media : 2-30 °C.

The expiration date is indicated on the label.

Prepared media in vials (*) : 180 days at 2-8 °C.

Prepared media in plates (*) : 30 days at 2-8 °C.

(*) Benchmark value determined under standard preparation conditions, following manufacturer's instructions.

9 PACKAGING

Dehydrated media :

500 g bottle BK027HA

10 ADDITIONAL INFORMATION

The information provided on the labels take precedence over the formulations or instructions described in this document and are susceptible to modification at any time, without warning.

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