

# 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

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Separately enumerate yeast colonies and molds.

## 7 QUALITY CONTROL

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**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

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**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

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**Dehydrated media** :

500 g bottle ..... BK027HA

## 10 ADDITIONAL INFORMATION

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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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