

## Technical Information

### Sabouraud Chloramphenicol Agar

**Product Code: DM 2067**

**Application:** - Sabouraud Chloramphenicol agar is recommended for selective cultivation of yeasts and moulds.

### Composition\*\*

Ingredients	Gms / Litre
Casein enzymic hydrolysate	5.000
Peptic digest of animal tissue	5.000
Dextrose	40.000
Chloramphenicol	0.050
Agar	15.000
Final pH ( at 25°C)	5.6±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Principle & Interpretation

Sabouraud Chloramphenicol Agar is also named as Medium C and recommended for cultivation of yeasts and moulds. This medium was devised by Sabouraud <sup>(1)</sup> for the cultivation of fungi, specially for the fungi associated with skin infections. The medium is often used with antibiotics such as Chloramphenicol <sup>(2)</sup> for the isolation of pathogenic fungi from materials containing large numbers of fungi or bacteria. Casein enzymic hydrolysate and peptic digest of animal tissue provide nitrogenous compounds. Dextrose provides an energy source. Chloramphenicol inhibits a wide range of Gram-positive and Gram-negative bacteria which makes the medium selective for fungi <sup>(3)</sup>. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens <sup>(4)</sup>.

### Methodology

Suspend 65.05 grams of powder media in 1000 ml distilled water. Shake well & heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.

Caution: Some pathogenic fungi may produce infective spores which are easily dispersed in air, so examination should be carried out in safety cabinet.

### Quality Control

#### Physical Appearance

Cream to yellow homogeneous free flowing powder

#### Gelling

Firm, comparable with 1.5% Agar gel

#### Colour and Clarity of prepared medium

Light amber coloured clear to slightly opalescent gel forms in Petri plates

#### Reaction

Reaction of 6.5% w/v aqueous solution at 25°C. pH : 5.6±0.2

#### pH range

5.40-5.80

#### Cultural Response/Characteristics

DM 2067: Cultural characteristics observed after an incubation at 20-25°C for 48-72 hours (Incubate for 7 days for Trichophyton species).

Organism	Inoculum (CFU)	Growth	Recovery
* <i>Aspergillus brasiliensis</i> ATCC 16404	50-100	Good-luxuriant	

<i>Candida albicans</i> ATCC 10231	50-100	Good-luxuriant	>=50%
<i>Escherichia coli</i> ATCC 25922	50-100	Inhibited	0%
<i>Lactobacillus casei</i> ATCC 334	50-100	Inhibited	0%
<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	Good-luxuriant	>=50%
<i>Trichophyton rubrum</i> ATCC 28191	50-100	Good-luxuriant	
<i>Escherichia coli</i> NCTC 9002	50-100	Inhibited	0%
<i>Escherichia coli</i> ATCC 8739	50-100	Inhibited	0%

\*Key: Formerly known as *Aspergillus niger* ATCC 16404

## Storage and Shelf Life

**Dried Media:** Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

**Prepared Media:** 2-8° in sealable plastic bags for 2-5 days.

## Further Reading

1. Sabouraud K., 1892, Ann. Dermatol. Syphilol, 3:1061.
2. Ajello L., 1957, J. Chron. Dis., 5:545.
3. Lorian (Ed.), 1980, Antibiotics In Laboratory Medicine, Williams and Wilkins, Baltimore.
4. Murray, P. R 2005, In Manual of Clinical Microbiology, 7th ed., ASM, Washington, D.C.

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