

## Sabouraud Chloramphenicol Agar Plate (Triple Layer Pack, Gamma-Irradiated)

### Intended Use

Sabouraud Chloramphenicol Agar Plate is used for selective cultivation of yeasts and moulds.

### Summary

Sabouraud Chloramphenicol Agar was described originally by Sabouraud for the cultivation of fungi, particularly useful for the fungi associated with skin infections. The medium is often used with antibiotics such as Chloramphenicol for the isolation of pathogenic fungi from materials containing large numbers of fungi or bacteria. The acidic pH of this medium inhibits the growth of bacteria but permits the growth of yeasts and most filamentous fungi.

Use of contact plate method to control surfaces is recommended in the ISO standards 14698-1, ISO 18598, USP chapter 1116 and in Good Manufacturing practices.

### Principle

Casein enzymic hydrolysate and peptic digest of animal tissue provide nitrogenous and carbonaceous compounds, long chain amino acids, and other essential growth nutrients. Dextrose acts as an energy source. Chloramphenicol inhibits a wide range of Gram-positive and Gram-negative bacteria which makes the medium selective for fungi. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens.

### Formula\*

Ingredients	g/L
Casein Enzymic Hydrolysate	5.0
Peptic Digest of Animal Tissue	5.0
Dextrose	40.0
Chloramphenicol	0.05
Agar	15.0

\*Adjusted to suit performance parameters.

### Additional Material Required

Bacteriology Incubator

### Instructions for use

1. Open the sterile pack and remove Sabouraud Chloramphenicol Agar Plate aseptically.
2. Inoculate/streak the plate and incubate in inverted position as per standard procedure.

### Reading and interpretation

1. After incubation, observe the microbial growth and count the colonies.
2. Interpretation is assured by user.
3. User is responsible to define the action limits as per standard guidelines and alert limits on the basis of trend analysis & other relevant data.

### Quality Control

**Appearance:** Gel with smooth and even surface, without any cracks, bubbles and drying or shrinking of media.

**Colour of Medium:** Light amber coloured, very slightly opalescent gel in petriplates.

**Quantity of Medium:** 15.5 ± 1 g in 55 mm plate.

**pH at 25°C ± 2°C:** 5.6 ± 0.2

**The above said product was Gamma Irradiated between 12 KGy - 21KGy.**

**Growth Promotion Test:** Growth promotion is carried out in accordance with the harmonized method of USP/EP/JP/IP and growth is observed after an incubation at 30-35°C for 48 hours for Bacteria and at 20°C-25°C for ≤ 5 days for fungi.

**Growth Promoting Properties:** The test results observed are within the specified temperature and shortest period of time specified in the test, inoculating ≤ 100 cfu of appropriate microorganism at 20°C-25°C for ≤ 5 days.

**Inhibitory Properties:** No growth of the test microorganism occurs for the specified temperature and not less than the longest period of the time specified, inoculating > 100 cfu of the appropriate microorganism at 30-35°C for ≥ 48 hours.

**Growth Promoting**

<b>Organism (ATCC)</b>	<b>Growth</b>	<b>Incubation Temperature</b>	<b>Incubation Period</b>
<i>Candida albicans</i> 3147 (10231)	Good	20°C-25°C	48 Hours
<i>Saccharomyces cerevisiae</i> NRRL Y-567 (9763)	Good	20°C-25°C	48 Hours
<i>Aspergillus brasiliensis</i> WLRI 034(120) (16404)	Good	20°C-25°C	72 Hours

**Inhibitory**

<i>Escherichia coli</i> (8739)	Inhibited	30°C-35°C	48 Hours
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**Note:**

For Good growth - Growth obtained on test media should not differ by a factor greater than 2 from calculated value for a standardized inoculum.

For inhibition no growth of test microorganism should occur.

**Storage and Shelf Life**

1. Store between 15°C-25°C to avoid water condensation. Condensation can be prevented by avoiding quick temperature shifts and mechanical stress.
2. Under optimal conditions, the medium has a shelf life of 3 months. Use before expiry mentioned on the label.

**Reference**

1. Sabouraud K., 1892, Ann. Dermatol. Syphilol, 3:1061.
2. USP Chapter 1116: microbiological evaluation of cleanrooms and other controlled environments.
3. USP Chapter 61: Microbiological Examination of Nonsterile Products: Microbial enumeration Tests.
4. USP Chapter 62: Microbiological Examination of Nonsterile Products: Tests for Specified Microorganism.
5. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

**Product Presentation:**

<b>Cat No.</b>	<b>Product</b>	<b>Pack Size</b>
205191610200	Sabouraud Chloramphenicol Agar Plate	200 Plates

**Disclaimer**

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.

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