

# Sabouraud Chloramphenicol Gentamicin Agar



Medium used for the presumptive identification of MRSA.

## • CONTENTS (Liter)

Pancreatic Digest of Casein	5.0 g
Peptic Digest of Animal Tissue	5.0 g
Glucose	40.0 g
Chloramphenicol	0.4 g
Agar	15.0 g
Final pH = 5.6 ± 0.2 at 25°C.	

## • PROCEDURE

Suspend 65.4 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Aseptically add 4 mL of Gentamicin supplement (MB-G1833). Mix well. Dispense in petri dishes.

### Gentamicin supplement

1 vial content	
Gentamicin	0.05 g

## • INTERPRETATION

Sabouraud Chloramphenicol Gentamicin Agar is a medium used for the presumptive identification of MRSA. Pancreatic digest of casein and peptic digest of animal tissue are the carbon, nitrogen, vitamins and other nutrient source. Glucose is a carbohydrate source for fermentation. Chloramphenicol and gentamicin are the broad-spectrum antibiotic inhibited to a wide range of gram-negative and gram-positive bacteria. Agar is the solidifying agent.

## • TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 20 - 25°C for 2 - 3 days up to 5 days. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light beige.

### Prepared medium

Appearance: slightly opalescent.

Color: amber.

Incubation conditions: 20 - 25°C / 2 - 3 days up to 5 days

Microorganism	ATCC	Inoculum CFU	Growth
<i>Aspergillus brasiliensis</i>	16404	50-100	good
<i>Candida albicans</i>	10231	50-100	good
<i>Saccharomyces cerevisiae</i>	76625	50-100	good
<i>Escherichia coli</i>	25922	≥10 <sup>3</sup>	inhibited
<i>Staphylococcus aureus</i>	25923	≥10 <sup>3</sup>	inhibited

## • STORE

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 2-8°C.

## • REFERENCES

1. Brun, S., et al. 2001. Evaluation of five commercial Sabouraud gentamicin-chloramphenicol agar media. *Eur. J. Clin. Microbiol. Infect. Dis.* 20: 718-723.
2. Haley, L.D., J. Trandel, and M.B. Coyle. 1980. *Cumitech 11, Practical methods for culture and identification of fungi in the clinical microbiology laboratory.* Coordinating ed., J.C. Sherris. American Society for Microbiology, Washington, D.C.
3. Ajello, L., L.K. Georg, W. Kaplan, and L. Kaufman. 1963. *CDC laboratory manual for medical mycology.* PHS Publication No. 994, U.S. Government Printing Office, Washington, D.C.
4. MacFaddin, J.F. 1985. *Media for isolation-cultivation- identification-maintenance of medical bacteria.* vol. I. Williams & Wilkins, Baltimore.
5. Sabouraud, R. 1892. Contribution a l'etude de la trichophytie humaine. Etude clinique, microscopique et bacteriologique sur la pluralité des trichophytons de l'homme. *Ann. Dermatol. Syphil.* 3: 1061-1087.

## • PACKAGE

Cat. No : MB-S2243 Sabouraud Chloramphenicol Gentamicin Agar	500 G
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