

Color Staph Aureus



Medium used for the isolation and identification of *Staphylococcus aureus*.

• CONTENTS (Liter)

Peptone	11.8 g
Yeast Extract	9.0 g
Mannitol	10.0 g
Sodium Chloride	55.0 g
Lithium Chloride	5.0 g
Aniline Blue	0.2 g
Agar	12.5 g
Final pH = 7.2 ± 0.2 at 25°C	

• PROCEDURE

Suspend 103.5 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. If necessary, add 2 vials of MRSA Selective supplement (MB-M2546). Mix well. Pour into petri dishes.

MRSA Selective Supplement

1 vial contents (each vial is sufficient for 500mL of medium)

Oxacillin	0.001 g
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• INTERPRETATION

Color Staph Aureus is a medium used for the isolation and identification of *Staphylococcus aureus*. Peptone, yeast extract, mannitol provide essential sources of nitrogen and other growth nutrients. Sodium chloride and lithium chloride provide the selectivity to the medium. Aniline blue causes *Staphylococcus aureus* to grow blue and other microorganisms to grow other colors. Agar is the solidifying agent. MRSA Selective supplement is used for the isolation of MRSA (Methicillin-resistant *Staphylococcus aureus*).

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 35 ± 2°C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige

Prepared medium

Appearance : slightly opalescent with slight precipitate

Color: light blue

Incubation conditions: 35 ± 2°C / 18 - 24 hours

Microorganism	ATCC	Growth w/o oxacillin	Growth w/ oxacillin
<i>Staphylococcus aureus</i>	33591	good (blue colonies)	good (blue colonies)
<i>Staphylococcus aureus</i>	25923	good (blue colonies)	inhibited
<i>Staphylococcus epidermidis</i>	12228	good (straw colonies)	inhibited
<i>Escherichia coli</i>	25922	inhibited	inhibited
<i>Bacillus cereus</i>	11778	inhibited	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. Store prepared medium at 2 - 8°C.

• REFERENCES

1. O. Gaillot. Evaluation of CHROMagar Staph aureus, a new chromogenic medium, for isolation and presumptive identification of *Staphylococcus aureus* from human clinical specimens. Laboratoire de Bacteriologie-Virologie, Hopital Necker-Paris, France, rapport de Septembre 1999.
2. Carricao A.,A.M. Freydiere et al. Performance of the Chromogenic medium CHROMagar Staph aureus and the Staphylochrom Coagulase Test in the detection and identification of *Staphylococcus aureus* in clinical specimens. Journal of clinical microbiology, July 2001, P.2581-2583, Vol:39 N°7.
3. Barrett F. F., McGehee R. F. Jr., and Finland M., 1968, Methicillin-resistant *Staphylococcus aureus* at Boston City Hospital, Bacteriologic and epidemiologic observations. N. Engl. J. Med. 279:444-448.

• PACKAGE

Cat. No : MB-C1616
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500 G