MRSA Screen Agar



Medium used for the isolation and identification of MRSA (Methicillin Resistant Staphylococcus aureus).

CONTENTS (Liter)

Beef Extract	2.0 g
Acid Hydrolysate of Casein	17.5 g
Soluble Starch	1.5 g
Sodium Chloride	40.0 g
Agar	17.0 g
Final pH = 7.3 ± 0.2 at 25° C	

PROCEDURE

Suspend 78.0 G 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 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 0.003 g

INTERPRETATION

MRSA Screen Agar is a medium used for the isolation and identification of MRSA (Methicillin Resistant *Staphylococcus aureus*). Beef extract and acid hydrolysate of casein provide nitrogen, carbon, amino acids and minerals. Soluble starch neutralizes toxic metabolic by-products. Sodium chloride maintains the osmotic balance. Agar is the solidifying agent. Oxacillin is used to inhibit MSSA (methicillin sensitive *Staphylococcus aureus*).

TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 30 - 35°C for 24 hours. Refer appropriate references for recommended test procedure.

QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige Prepared medium

Appearance: clear to slightly opalescent

Color: light amber

Incubation conditions: 30 - 35°C / 24 hours

Microorganism	ATCC	Growth
Staphylococcus aureus	33591	good
Staphylococcus aureus	25923	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. 1. Murray P. R., Baron J. H., Pfaller M. A., Jorgensen J. H. and Yolken R. H., (Eds.), 2003, Manual of Clinica I Microbiology, 8th Ed., ASM, Washington, D.C.
- 2. 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.
- 3. National Committee for Clinical Laboratory Standards. 1997. Methods for dilution antimicrobial susceptibility tests for bacteria that grow aerobically. 4thed. Approved standard M7-A4. National Committee for Clinical Laboratory Standards, Villanova, PA.
- 4. Florey H. W., Chain E., Heatley N. G., Jennings M. A., Sanders A.G., Abraham E. P., and Florey M. E., (Ed.), Antibiotics, Vol. II, Oxford University Press, London.

PACKAGE

Cat. No : MB-M2212 MRSA Screen Agar	500 G
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