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Section: <b>Technical Manual</b>	Subject Title: <b>Denka MRSA Screen</b>	
Issued by: <b>LABORATORY MANAGER</b>	Original Date: July 31, 2000	
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## **DENKA MRSA SCREEN**

### **Principle**

To be used as a screening test for the detection of Methicillin Resistant *S. aureus* (MRSA) from isolated colonies.

### **Reagents**

MRSA screening kit  
Microcentrifuge tubes  
Boiling water bath  
Wooden sticks  
Loops  
Micropipettes

### **Method**

1. Add 4 drops of extraction reagent #1 into a microcentrifuge tube.
2. Take one heavy loopful of the *Staphylococcus aureus* colonies from a blood plate and suspend the cells in the microcentrifuge tube.
3. Place in a boiling water bath for 3 minutes.
4. Remove microcentrifuge tube and let cool to room temperature.
5. Add one drop of extraction reagent #2 to the tube and mix well.
6. Centrifuge at high speed for 5 minutes.
7. For each specimen to be tested, allot and label one circle of the test card for testing with sensitized latex and one with control latex.
8. Place 50 microliters of the specimen onto 2 of the test circles and add one drop of the sensitized cells to one circle and one drop of the latex control to the other.
9. Mix the sample and latex together.
10. Rotate the card by hand for 3 minutes and observe for agglutination.

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11. If negative rotate for another 3 minutes.

**Interpretation**

<u>Sensitized latex</u>	<u>Control latex</u>	<u>Result</u>
+	-	MRSA
-	-	Not MRSA
+ or -	+	Indeterminant

**Quality Control**

Positive and negative controls must be set up once per week.

Positive: *S. aureus* (ATCC 43330)

Negative: *S. aureus* (ATCC 29213)

**Reference**

1. Denka Seiken Co., Ltd., Tokyo, Japan, Denka MRSA Screen package insert June 1998.