

# MRSA-Screen

A Slide Latex Agglutination Assay for the  
Detection of PBP2' of *S. aureus*

Identifies MRSA in minutes!

## Features

<b>Rapid</b>	Results 1-2 days earlier than conventional methods (Results in 15 minutes)
<b>Simple</b>	Easy to perform by slide latex agglutination
<b>High Performance</b>	Excellent sensitivity and specificity



## CONTENTS

50 tests

1. Sensitized Latex	1.3mL x 1
2. Control Latex	1.3mL x 1
3. Extraction Reagent 1	10mL x 1
4. Extraction Reagent 2	2.5mL x 1
5. Test cards	30
6. Mixing sticks	110

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# MRSA-Screen

Methicillin-resistant *S. aureus* has become a worldwide concern owing to their increasing frequency in hospitals causing serious staphylococcal infections, including sepsis and endocarditis. Rapid and appropriate antimicrobial therapy, including the administration of vancomycin, is critical for effective treatment. However, conventional methods for identifying MRSA, such as disc susceptibility testing, are not always reliable since phenotypic expression of methicillin resistance is known to be heterogeneous, depending on such factors as incubation time, temperature, NaCl concentration, etc. Difficulties in the differentiation of MRSA from borderline oxacillin-resistance *S. aureus* (BORSA), for example, may also occur. Recent research suggests that in the identification of MRSA, it is more accurate to either directly detect the gene encoding the methicillin resistance determinant (*mecA*) or its product, penicillin-binding protein 2' (2a), or PBP2' (PBP2a), which is found in the cell membrane of MRSA. However, as nucleic acid hybridization and DNA amplification techniques such as PCR for detecting the *mecA* gene are expensive and technically demanding, simple and more inexpensive techniques are required for routine use. MRSA-Screen was developed expressly for this purpose, providing results in 15 minutes with minimal labor and no specialized equipment.

## REFERENCE DATA

MRSA-Screen was evaluated at a laboratory against NCCLS reference method and *mecA* detection (PCR) with the following results.

		Susceptibility* <sup>1</sup>		Total			PCR method		Total
		MRSA	MSSA				<i>mecA</i> Positive	<i>mecA</i> Negative	
MRSA Screen	PBP2' Positive	68	0	68	MRSA Screen	PBP2' Positive	68	0	68
	PBP2' Negative	1* <sup>2</sup>	16	17		PBP2' Negative	1* <sup>3</sup>	16	17
Total		69	16	85	Total		69	16	85

1 NCCLS oxacillin agar screen test

2 *mecA* gene positive by PCR

3 MRSA by AST

## STORAGE AND SHELF-LIFE

Storage : 2-10°C protected from light.  
Shelf life : Up to the expiry date on the label.

## PACKAGE

### MRSA Screen

A rapid slide latex test to detect PBP2'

Size	Product code
50 tests	230782

The following *S. aureus*-related products are sold separately

Product Name	Description	Size	Code
Staphylococcal Coagulase Typing Antisera STAPHYLO LA "SEIKEN"	Serotyping of <i>Staphylococcus aureus</i> coagulase Screening of <i>S. aureus</i> by slide latex agglutination	5mL x 8 100 tests	270016 296146
*SET-RPLA "SEIKEN" (Research Use Only)	Staphylococcal enterotoxins detection(A,B,C,D)	20 tests	230829
*TST-RPLA "SEIKEN"	Staphylococcal TSST-1 detection	20 tests	230041
*EXT-RPLA "SEIKEN"	Staphylococcal exfoliative toxin A&B detection	20 tests	230492

\*Limited Supply ; Please inquire if you would like to know further information about this product.

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