

Detect-Ready™ MRSA

Real-Time PCR DNA Diagnostic Test for Laboratory Use

Detect-Ready™ MRSA is a CE marked, real-time quadruplex PCR assay for the rapid detection of MRSA carriers via nasal swabs.

Detect-Ready™ MRSA Kit's Advantages



- Sample-to-Answer in less than 3 hours



- Superior sensitivity & specificity—designed to minimise false positive & negative results



- Ready-to-use pre-mixed reagents reduce preparation time—just add sample
- Room temperature-stabilised, no refrigeration needed once opened—true Off-the-Shelf kit



- Compatible with multiple commonly used qPCR instruments – LightCycler®, Rotor-Gene® & SmartCycler®





Detect-Ready™ MRSA assay is a ready-to-use, “sample-to-answer” rapid detection screening test for the growing problem of MRSA (methicillin-resistant *S. aureus*) infection. This qualitative real-time PCR *in vitro* diagnostic test is designed for the rapid detection of MRSA carriers via nasal swabs as part of hospital-based programs to aid in the prevention and control of MRSA infection.

Detect-Ready™ MRSA Kit Features & Advantages

- **Improves test accuracy by identifying multiple MRSA DNA gene targets**
 - Four-plex assay simultaneously targets an internal control and 3 MRSA DNA regions, including the *mecA* gene, *nuc* gene and *SCCmec:orfX* junction
 - Multiple primer sets targeting the variable *SCCmec* cassette provide effective detection of a wide range of variant MRSA strains including all of the known major types.
- **Unique differential diagnosis engine**
 - Reduces false positive results from *SCCmec*-positive *MSSA* strains and mixed bacterial samples
 - Detects presence/absence of multiple DNA gene targets
 - Compares real-time amplification rates of multiple simultaneous PCR reactions across cycles.
- **Detect-Ready’s innovative hot-start primer chemistry provides an efficient PCR reaction at every cycle**
 - Substantially reducing primer competition
 - Enabling incorporation of a large number of primers in a single reaction.

Offers Exceptional Performance

Exceptional accuracy was demonstrated in a study using the Detect-Ready™ MRSA kit:

MDI Detect-Ready™ MRSA Kit				
		Culture		Total
		Positive	Negative	
MDI Detect-Ready™ MRSA Kit	Positive	56	4	60
	Negative	3	698	701
		59	702	761
Total Sample		761		
Incidence of MRSA in Sample		7.8%		
Sensitivity		94.9%		
Specificity		99.4%		
Positive Predictive Value		93.3%		
Negative Predictive Value		99.6%		

The Detect-Ready™ MRSA kit is not intended to diagnose MRSA infections nor to guide or monitor treatment for MRSA infections.