



## BD MAX™ StaphSR Real-time PCR assay

### The need for rapid, differentiating *Staphylococcus aureus* testing

*Staphylococcus aureus* (SA) is a major cause of healthcare-associated infections, including both bloodstream infections and surgical site infections, with clinical manifestations ranging from pustules to sepsis and death.<sup>1</sup>

With the increased morbidity and mortality associated with SA infections, the emergence of *mecA* drop-out strains and the spread of a new methicillin resistance gene (i.e., *mecC* gene), the ability to detect and differentiate SA and methicillin-resistant SA (MRSA) within hours instead of days represents a definite advantage over current practices and allows for more effective patient treatment and management.<sup>2</sup>

### Discover the assay

The **BD MAX™ StaphSR** is an automated assay that includes nucleic acid extraction, purification and real-time polymerase chain reaction (PCR) for direct and qualitative detection and differentiation of **SA and MRSA DNA**.

The test detects a region of the **SSC*mec* cassette and the *mecA* and *mecC* genes for methicillin resistance**.

The test also includes a sample processing control.

### Sample types

Nasal swabs

### Workflow and time to results



Results obtained in about  
**2 hours for 24 samples**



Less than **1.5 minutes**  
**of hands-on time**  
in sample preparation



**Compatibility to run alongside**  
**other BD MAX™ assays** on  
1 to 24 specimens simultaneously  
for greater flexibility

### Scientific evaluation

Read more about the **BD MAX™ StaphSR assay** from molecular studies and publications.



Tansarli et al., *Diagnostic Accuracy of Presurgical Staphylococcus aureus PCR Assay Compared with Culture and Post-PCR Implementation Surgical Site Infection Rates*, *J Mol Diagn*. August 2020 Volume 22 Number 8 pages 1063-1069.

## Ready-to-use reagents storable at room temperature

REF	Contents	Quantity
443419	<b>BD MAX™ StaphSR Master Mix (B7)</b> Dried PCR Master Mix, Target and Sample Processing Control molecular probes and primers and PCR enzyme	24 tests (2 x 12 tubes)
	<b>BD MAX™ StaphSR Unitised Reagent Strip</b> Unitised reagent strip containing wash buffer, elution buffer, and neutralisation buffer reagents as well as disposable pipette tips necessary for sample processing and DNA extraction	24 strips
	<b>BD MAX™ StaphSR Extraction Tube (B8)</b> Dried extraction reagent containing DNA magnetic affinity beads, Achromopeptidase and Sample Processing Control	24 tests (2 x 12 tubes)
	<b>BD MAX™ StaphSR Sample Buffer Tube</b>	24 tubes
	<b>Septum Cap</b>	25

## Rapid, targeted testing on the BD MAX™ System

The innovation of the BD MAX™ System offers you a **fully integrated, automated real-time PCR platform** with the possibility of running multiple assays simultaneously.\* Its automated workflow **reduces manual tasks** to achieve rapid, reliable results and facilitates off-hour testing, helping to **offset molecular testing costs.**\*\* 3,4



### Snap

Assemble unitised reagent strips with ready-to-use reagents.



### Load

Load Sample Buffer Tubes, Racks and PCR cartridges.



### Go

Come back in an average of 2.5 hours for results.\*\*\*

Discover our full assay portfolio and the BD MAX™ System



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BD MAX™ StaphSR [IFU 443419], Franklin Lakes, NJ: Becton, Dickinson and Company; 2021.

1. Centers for Disease Control and Prevention. Methicillin-resistant Staphylococcus aureus skin or soft tissue infection in a state prison, Mississippi, 2000. MMWR 2001; 50:919–92.  
2. BD MAX™ StaphSR [IFU 443419], Franklin Lakes, NJ: Becton, Dickinson and Company; 2021. 3. Mortensen JE, et al. Comparison of time-motion analysis of conventional stool culture and the BD MAX™ Enteric Bacterial Panel (EBP). BMC Clin Pathol. 2015;15:9. 4. Hirvonen JJ, et al. Comparison of BD Max Cdiff and GenomEra C. difficile molecular assays for detection of toxigenic Clostridium difficile from stools in conventional sample containers and in FecalSwabs. Eur J Clin Microbiol Infect Dis. 2015;34(5):1005-1009.

\* BD assays are run & rack compatible – Only MDR-TB and GBS are not run and rack compatible / Vaginal Panel and open systems' assays are only run compatible.

\*\* When compared to culture or immunochromatographic antigen (IA).

\*\*\* Time is assay dependent. 4 hours for full results on MDR-TB assay.

The BD MAX™ System and BD MAX™ StaphSR assay are in-vitro diagnostic medical devices bearing a CE-mark.

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