BD MAX™ MRSA XT

Real-time PCR assay

The need for timely, accurate MRSA detection

Methicillin-resistant *Staphylococcus aureus* (MRSA) is a major cause of healthcare-associated infections. MRSA is most often transmitted within the healthcare environment from the contaminated hands of healthcare workers and MRSA-carrying patients.

Active surveillance using molecular tests for rapid detection of MRSA is a proven strategy to reduce transmission in healthcare settings and prevent infection in vulnerable patients. Inaccurate detection can lead to uncontrolled MRSA transmission and inappropriate use of healthcare resources.[1]

Discover the assay

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

The test detects the a region of the **SCC*mec* cassette** as well as 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 just over **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™ MRSA XT assay** from molecular studies and publications.

Mehta et al, Comparison of the BD MAX™ MRSA XT to the Cepheid™ Xpert® MRSA assay for the molecular detection of methicillin-resistant Staphylococcus aureus from nasal swabs, Diagn Microbiol Infect Dis. April 2017, Pages 308-310.

Ready-to-use reagents storable at room temperature

REF	Contents	Quantity
443461	**BD MAX™ MRSA XT Master Mix (C7)** Dried PCR Master Mix containing nucleotides, Target and Sample Processing Control molecular probes, primers and PCR enzyme	24 tests (2 x 12 tubes)
	BD MAX™ MRSA XT Unitised Reagent Strip 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
	BD MAX™ MRSA XT Extraction Tube (B8) Dried extraction reagent containing DNA magnetic affinity beads, Achromopeptidase and Sample Processing Control	24 tests (2 x 12 tubes)
	BD MAX™ MRSA XT Sample Buffer Tube	24 tubes
	Septum Cap	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**.** [2,3]

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

advancing-diagnostics.eu advancingdiagnostics@bd.com

BD MAX™ MRSA XT [IFU 443461], Franklin Lakes, NJ: Becton, Dickinson and Company; 2021.

1.Jarvis et al., National prevalence of methicillin-resistant Staphylococcus aureus in inpatients at United States health care facilities, 2010. Am. J Infect Control 2012; 40:194–20
2. 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. **3.** 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™ MRSA XT assay are in-vitro diagnostic medical devices bearing a CE-mark.