

FAST | EASY | AFFORDABLE | SAFE | RELIABLE

TruArray MRSA Test for Identifying MRSA and mobile mecA elements



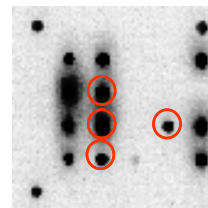
OVERVIEW

Staphylococcus aureus is a major cause of nosocomial infections. Patients with open wounds, implanted devices and weakened immune systems are particularly at risk. With clinical manifestations ranging from pustules to sepsis and death, *S. aureus* is also found in the nose or on the skin of healthy individuals. Methicillin-resistant strains of *S. aureus* (MRSA) may constitute up to 50% of hospital acquired *S. aureus* infections. Screening patients for MRSA nasal carriage upon admission to the hospital can be part of an effective infection control program. The median time for MRSA screening and detection is currently 48 hours based on gold-standard culture methods, and PCR-based products may be prone to false negatives. The TruArray MRSA test is the first array-based test to provide four levels of genetic redundancy for detecting MRSA, with a turnaround time < 4 hours.

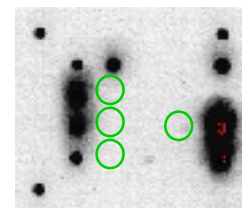
TRUARRAY MRSA TEST CAPABILITIES

- **Integrated Workflow:** Akonni TruDiagnosis[®] Systems utilize the TruDx[™] 1000 Reader, TruCycler[™] Satellite Thermal Cycler, and the Akonni TruTip[™] XT DNA Kits for workflow-integrated extraction, amplification, hybridization, detection, and analysis.
- **Multi-Target Coverage:** Simultaneously detects *Staphylococcus* genus, *S. aureus* species, and functional methicillin resistance determinants as integrated *S. aureus* cassettes within commensal organisms.
- **Sensitive and Specific:** Utilizes the polymerase chain reaction to offer reproducible detection at ~2000 genome copies.

Methicillin resistant *S. aureus*



Methicillin sensitive *S. aureus*



Sensitive and specific differentiation between MRSA and MSSA.

TRUARRAY[®] MRSA TEST BENEFITS

- **Rapid:** Starting from samples of 100 µl to 1.5 ml or more, the TruArray MRSA test delivers definitive results in a few hours with a total hands on time (sample-to-answer) less than one hour.
- **Accurate:** Simultaneous analysis from a single sample removes variability and delivers results you can trust.
- **Simple:** Affordably priced and easy to perform, one test detects MRSA at four levels of genetic redundancy, with simple data output and reporting that requires minimal training to understand.
- **Flexible:** Sample preparation solutions for nasal swabs, nasopharyngeal aspirate, whole blood, and culture will prepare TruArray-ready DNA in as few as 10 minutes.

MARKETS

INFECTIOUS DISEASES

GENETIC DISEASES

ONCOLOGY

PHARMACOGENETICS

ENVIRONMENTAL

BIOTHREAT

FORENSICS

TRUARRAY ADVANTAGE

In 2002, Akonni Biosystems acquired an exclusive license for medical applications of gel-element array technology developed by the Engelhardt Institute for Molecular Biology and Argonne National Laboratories. Since then, Akonni has significantly advanced the technology through improvements in manufacturing and providing an integrated, sample-to-answer capability for clinical laboratories or low-resource settings. The technology is now supported by over 100 scientific publications and 30 issued or pending patents. TruArray tests are well positioned to be the industry leader in molecular diagnostic tests.

YOUR TRUARRAY MRSA TEST KIT

Akonni TruArray MRSA tests are available as pre-packaged kits providing all materials and reagents needed to perform 10 tests. For best results, we recommend using Akonni TruArray MRSA tests as part of an integrated workflow that includes TruTip XT DNA Kits, the TruCycler Satellite Thermal Cycler for amplification and hybridization, and the TruDx 1000 Reader for image capture, data processing, data analysis, and reporting.

FDA STATUS

All of Akonni Biosystems tests are currently for Research Use Only, and are not for use in diagnostic procedures. Akonni is working to develop these products into Food & Drug Administration (FDA)-cleared diagnostic tests.

TO ORDER

- 200-10500** **TruArray MRSA test kit for detecting MRSA** in nasal swabs, cultures, and other specimens. Includes all master mixes, buffers and reagents required to perform 10 tests.
- 100-10000** **TruDiagnosis System for multiplexed molecular diagnosis.** Includes the Akonni TruDx 1000 Reader, Akonni TruCycler Satellite Thermal Cycler, and laptop computer with data collection and analysis software. Systems include one year warranty against defective parts. Accepts international AC; 90-264V, 50-60 Hz AC.
- 300-10300** **TruTip XT DNA Kit with Beads (60 SPT)** for hard-to-lyse microorganisms. Includes materials required to perform 60 extractions.
- 300-10301** **TruTip XT DNA Kit with Beads (60 LPT)** for hard-to-lyse microorganisms in thicker or more viscous samples. Includes materials required to perform 60 extractions.

To order call **+1 301.698.0101**

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For Research Use Only. Not for use in diagnostic procedures. No claim or representation is intended for the diagnosis, prevention, or treatment of a disease.

Protected by 1 or more U.S. Pat: 6,460,094; 6,442,734; 6,795,949; 7,096,435. Other patents issued and pending.

TruDiagnosis and TruArray are registered trademarks and the Akonni logo, TruDx, TruTip, and TruCycler are trademarks of Akonni Biosystems, Inc.

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