Q-MRSA DETECTION KIT

Methicillin-resistant Staphylococcus aureus (MRSA) is a major epidemiological problem in hospitals throughout the world. MRSA causes about 30% of surgical site infections, as well as 24% of ventilator-related pneumonia infections, 10% of central line infections, and 2% of urinary catheter-associated bloodstream infections.

Current methodologies of MRSA detection are clinically time consuming. The Q-MRSA detection kit provides a simple multiplex test to detect the 3 major MRSA markers all at once: the mecA gene, the nuc gene (S. aureus-specific marker) and the SCC:orfX junction (the integration site of the SCCmec cassette into the S. aureus chromosome). This multiplex detection kit requires minimal sample preparation and provides accurate results.

**KEY FEATURES**
- **Multiplexing:** simultaneous detection of nuc, mecA and six subtypes of SCCmec:orfX junction.
- Internal Control to exclude PCR inhibition and to monitor reagent integrity.
- Compatible with current real-time qPCR instruments.
- Rapid qPCR results in 1.5 hours.
- Simple one step protocols: just add genomic DNA and go.

**DYNAMIC RANGE: DETECTION FROM 1 MILLION COPIES TO 100 COPIES**

- Linear Range: $10^6$~$10^2$
- $R^2 > 0.99$
- Light Red color for NUC;
- Dark Red for mecA;
- Gray for orfX/SCCmec junction

**PRODUCT SPECIFICATIONS**

<table>
<thead>
<tr>
<th>SCCMEC SUBTYPES</th>
<th>MREJ type i, ii, iii, iv, v and vii</th>
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</thead>
<tbody>
<tr>
<td>SENSITIVITY</td>
<td>100 copies</td>
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<tr>
<td>INSTRUMENTS</td>
<td>Compatible with Bio-Rad CFX96, iCycler, ABI7500, Stratagene Mx3000P/Mx3005P, and other commonly used RT-qPCR instruments</td>
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</tbody>
</table>
# ORDERING INFORMATION

## Q-MRSA DETECTION KIT

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Size</th>
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<tbody>
<tr>
<td>1-300-10020</td>
<td>Q-MRSA Detection Kit</td>
<td>20 reactions</td>
</tr>
<tr>
<td>1-300-10010</td>
<td>Q-MRSA Detection Kit</td>
<td>10 reactions</td>
</tr>
</tbody>
</table>

For Research Use Only. Not for use in diagnostic procedures.