

foodproof® SL

# Staphylococcus aureus Detection Kit

## Ready Reference Guide

Revision A, December 2023

Product No. KIT230200

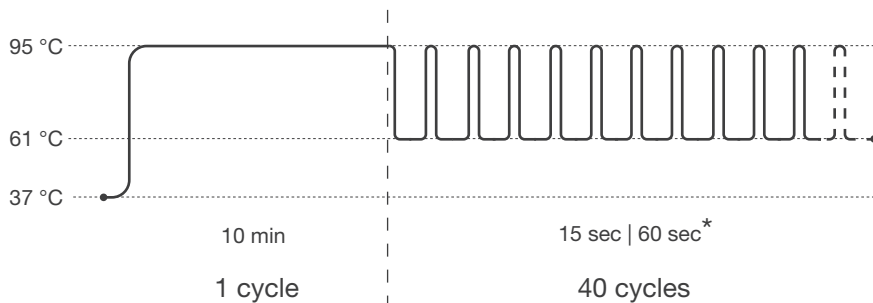
PCR kit for the qualitative detection of *femA* DNA using real-time PCR instruments.

Before starting, it is strongly recommended to read the entire product manual available on our website.

### PROGRAM SETUP

Program your real-time PCR instrument before setting up the PCR reactions. Select the following channels:

- ▶ FAM (*femA*) and VIC/HEX (Internal Control).



**Pre-incubation: 1 cycle**  
Step 1: 95 °C for 10 min

**Amplification: 40 cycles**  
Step 1 : 95 °C for 15 sec  
Step 2\*: 60 °C for 60 sec

\* Fluorescence detection

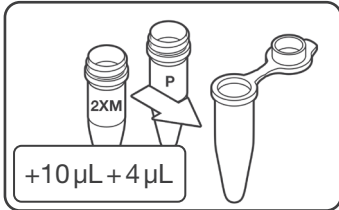
### DATA INTERPRETATION

Verify results of positive (Control Template) and negative (H<sub>2</sub>O) controls, before interpreting the sample results. Always compare samples to positive and negative controls. Review data from each channel and interpret results as described in the table.

FAM	VIC/HEX	Result Interpretation
+	+ or -	Positive for <i>femA</i>
-	+	Negative for <i>femA</i>
-	-	Invalid

# PREPARATION OF THE RT-PCR MIX

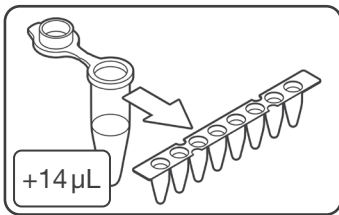
Take appropriate precautions to prevent contamination, e.g., by using filter tips and wearing gloves. Thaw reagents, mix (do not vortex!) and briefly spin vials before opening.



## 1. PREPARE PCR MIX

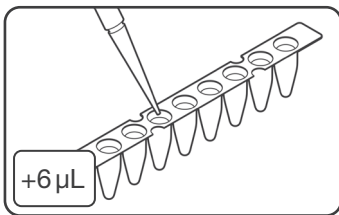
Add 10 µL Master Mix (2XM) and 4 µL Primer/Probe Mix (P) for each reaction to a suitable tube.

(n samples + 2 controls + at least one additional reaction to cover pipetting loss). Mix carefully but thoroughly by pipetting up and down.



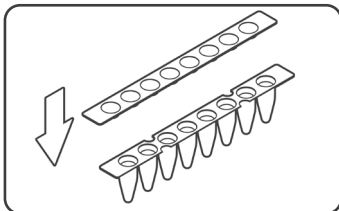
## 2. ADD PCR MIX

Pipet 14 µL of prepared PCR mix into each strip or plate well.



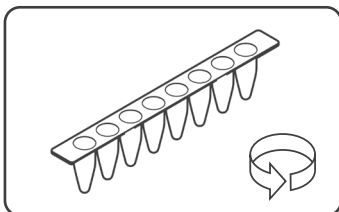
## 3. ADD SAMPLES AND CONTROLS

Pipet 6 µL of samples, negative control (PCR-grade H<sub>2</sub>O, not included) or Control Template (C) into respective wells.



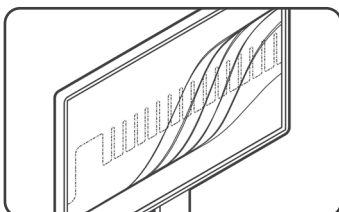
## 4. SEAL

Seal strips/plate accurately.



## 5. CENTRIFUGE

Briefly spin strips/plate in a suitable centrifuge.



## 6. START REAL-TIME PCR RUN

Cycle samples as described above.