

## TaqMan® *Staphylococcus aureus* Detection Kit

Rapid, reliable, and ready to use



### TaqMan® Pathogen Detection Kits

- *Staphylococcus aureus*

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- *Campylobacter jejuni*

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- *Cronobacter sakazakii*

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- *E. coli* O157:H7

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- *Listeria monocytogenes*

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- *Pseudomonas aeruginosa*

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- *Salmonella enterica*

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### Address a Significant Threat

*Staphylococcus aureus* (*S. aureus*) can be found in a wide variety of environmental samples, such as soil, dust, air and water. Because of the pathogenicity of *S. aureus*, it is of concern in food and certain nonsterile pharmaceutical raw materials and finished products (United States Pharmacopodia 29 Chapter 61). In the European Union, *S. aureus* must not be detected in certain cosmetic products specifically intended for the eye area, mucous membranes and children under three years of age (European Commission 1999). The TaqMan *Staphylococcus aureus* Detection Kit provides an accurate and reliable test capable of identifying *S. aureus* in a rapid and cost-effective manner.

### Real-Time PCR Delivers

The TaqMan® *Staphylococcus aureus* Detection Kit uses proven real-time PCR technology designed to provide:

- Rapid, reliable identification of *S. aureus* in a wide variety of samples
- Verified performance
- Ready-to-use convenience
- Reduced risk of contamination

### Faster than Conventional USP and EP Test Methods

TaqMan-based real-time PCR can prove the absence of *S. aureus* and other bacteria specified in the United States Pharmacopeia (USP) Chapter 61, and European Pharmacopeia (EP) 2, 2.6.13, faster and more efficiently than conventional methods.<sup>1</sup>

<sup>1</sup> P. Merker, L. Grohmann, R. Petersen, J. Ladewig, K.P. Gerbling, and F.R. Lauter, "Alternative microbial testing: a new DNA-based detection system for specified microorganisms in pharmaceutical preparations"; *PDA Journal of Pharmaceutical Science & Technology*, 4 (6), 470-477 (2000).

## Results in three easy steps

### 1. Enrich samples



### 2. Prepare samples



### 3. Run samples



## Detect *S. aureus* Faster

A number of tests are currently available that identify *S. aureus* based on phenotypic and biochemical methods. However, because of isolates that may escape identification with these methods, faster, more reliable methods are needed. The TaqMan® *Staphylococcus aureus* Detection Kit offers such an alternative.

## Use DNA-Based Real-Time PCR

The TaqMan *Staphylococcus aureus* Detection Kit uses PCR to amplify a DNA target sequence unique to *S. aureus*. Identification is made if, and only if, the target sequence is present. The detection process can be performed in less than two hours.

## Rely on Applied Biosystems

The TaqMan *Staphylococcus aureus* Detection Kit has been designed using Applied Biosystems sophisticated bioinformatics process to increase the assays' reliability in meeting the following criteria:

- DNA of the target organism yields a positive signal
- DNA of closely related organisms yields a negative signal
- Negative controls yield a negative signal

Validation for specific applications of the TaqMan *Staphylococcus aureus* Detection Kit must be performed in your laboratory according to your laboratory's validation procedures.

## Benefit from Unique Kit Format

The TaqMan assay's easy-to-use, closed-tube format minimizes the risk of contamination. Once samples and reagents are added, the tubes remain closed throughout the amplification and detection process. All TaqMan Pathogen Detection Kits are based on the same standardized protocol. This enables you to run any combination of these assays together in the same sample run.

## Use a Complete Solution with an Expanding Menu

The TaqMan *Staphylococcus aureus* Detection Kit is part of a fully integrated, single-vendor solution that includes Applied Biosystems real-time PCR systems, software and reagents designed to deliver superior speed, simplicity and accuracy.

TaqMan Pathogen Detection Kits are available for the following organisms:

- *Staphylococcus aureus*<sup>2</sup>  
(p/n 4368606)
- *Salmonella enterica*<sup>3</sup>  
Certified by AOAC and AFNOR  
(p/n 4366104)
- *Campylobacter jejuni*<sup>3</sup>  
(p/n 4366098)
- *Cronobacter sakazakii*<sup>2</sup>  
(p/n 4382492)
- *E. coli* O157:H7<sup>3</sup>  
(p/n 4366100)
- *Listeria monocytogenes*<sup>3</sup>  
(p/n 4366102)
- *Pseudomonas aeruginosa*<sup>2</sup>  
(p/n 4368604)

<sup>2</sup>These kits have been verified through Applied Biosystems' internal validation procedures

<sup>3</sup>These kits have been validated as described in "TaqMan® Pathogen Detection Kits - Validation Reference White Paper" (stock number 116WPO1-01).

For environmental (including soil, air and water), quality control, and food and finished products testing; for research use only. Not for use in diagnostic procedures (including, in the United States, epidemiology use with human or animal samples by public health officials). This product has not been cleared or otherwise approved by the United States Food and Drug Administration or by any other regulatory body in any country, or under the European IVD Directive, for diagnostic or any other clinical purpose. The purchaser or user of this product agrees not to use this product for diagnostic or other clinical purposes.

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