# [Cat. No.] K-6843

#### Introduction

*AccuPower*<sup>®</sup> Clostridium sordellii Real-Time PCR Kit is a product that can specifically detect *Clostridium sordellii* (*C. sordellii*) by real-time PCR.

*C. sordellii* is an anaerobic bacterium with spores that causes pneumonia, endocarditis, arthritis, peritonitis, etc. It is frequently found in the soil and intestines of animals, and can usually also be found in the vagina of healthy women. If it enters the uterus through gynecological procedures or childbirth, it can cause *C. sordellii* toxic shock syndrome (CSTS). The incidence of CSTS is not known, but if it does develop, can lead to death. Symptoms of CSTS include an increase in white blood cell count, low blood pressure, and tachycardia.

This product contains all Real-time PCR components specific to *C. sordellii*, including DNA polymerase, dNTPs, and reaction buffer. The users can easily prepare reaction mixture simply by adding template DNA, Oligo Mix and DEPC-D.W.

### **Features & Benefits**

- Convenience: All necessary reactants for real-time PCR are included in a tube (i.e., Master Mix Type), allowing the users to perform reaction simply by adding template DNA, Oligo Mix, and DEPC-D.W.
- Sensitivity: By using BIONEER's HotStart *Taq* DNA Polymerase that minimizes non-specific reactions and maximizes reaction efficiency, only the target gene can be effectively amplified even with a trace amount of template DNA.

#### Components

Components	Amount		
2X Master Mix	625 µl x 2 ea		
Oligo Mix	500 µl		
DEPC-D.W.	1.8 ml		
Positive Control (1x10 <sup>8</sup> copies/µI)	50 µl		
* Note: For research use only. Not for use in diagnostic or therapeutic procedures.			

#### Composition

	Composition	25 μl reaction
	Taq DNA Polymerase	2.5 U
2X Master Mix	dNTPs (dATP, dCTP, dGTP, dTTP)	Each 300 µM
	Reaction buffer with 2 mM MgCl <sub>2</sub>	1X
	C. sordellii Forward primer	0.32 µM
Oligo Mix	C. sordellii Reverse primer	0.32 µM
Oligo Mix	C. sordellii Probe (FAM)	0.32 µM
	ROX dye	1X

#### Specifications

Taq DNA Polymerase				
5' $\rightarrow$ 3' exonuclease activity	Yes			
$3' \rightarrow 5'$ exonuclease activity	No			
3'–A overhang	Yes			

#### Storage

Store at -20°C. If stored in the recommended temperature, this product will be stable until the expiration date printed out on the label.

### **Online Resources**



English

Visit our product page for additional information and protocols

### **Ordering Information**

Description	Cat. No.
AccuPower <sup>®</sup> Clostridium sordellii Real-Time PCR Kit, 1.25 ml of 2X Master Mix solution, 100 tests	K-6843

#### Notice

BIONEER corporation reserves the right to make corrections, modifications, improvements and other changes to its products, services, specifications or product descriptions at any time without notice.

## **Explanation of Symbols**



Copyright 2022 BIONEER Corporation. All Rights Reserved.

1

## www.bioneer.com

# **Experimental Procedures**

	Steps	Procedure Details			
1	Preparation of reaction mixture	1. Thaw all components of <i>AccuPower</i> <sup>®</sup> Clostridium sordellii Real-Time PCR Kit on ice and mix thoroughly before use. Then, briefly spin down all components.			
2	Composition of reaction mixture	2. Add all components into to the following list of com 2X Master Mix Oligo Mix Template DNA DEPC-D.W. Total volume	ponents (Based on 1	tubes (not provided) or a plate (not provided) referring ents (Based on 1 test). Amount 12.5 μl 5 μl 1-5 μl Variable 25 μl	
3	Real-time PCR	<ul> <li>3. Place PCR tubes or plate</li> <li>4. Perform the reaction und</li> <li>Step</li> <li>Pre-denaturation</li> <li>Denaturation</li> <li>Annealing &amp; Extension</li> <li>* Note: Users can adjust the proptimal results.</li> <li>5. After the reaction is complete</li> </ul>	er the following conditi Temperature 95°C 95°C 55°C rotocol according to their	ons. Time 5 min 10 sec 20 sec nstrument and temp	Cycles 1 cycle 45 cycles

Copyright 2022 BIONEER Corporation. All Rights Reserved.

2