#### [Cat. No.] K-6867

## Introduction

AccuPower® Achromobacter xylosoxidans Real-Time PCR Kit is a product that can specifically detect Achromobacter xylosoxidans (A. xvlosoxidans) by real-time PCR.

A. xylosoxidans is a gram-negative bacterium that are generally found in humid environments. If the immunity is deteriorated by chemotherapy, surgery, steroid treatment, etc., can lead to infection in the hospital. In particular, patients with cystic fibrosis are known to be easier to get infectious diseases by A. xylosoxidans such as bacteremia and pneumonia. It has resistance to various antibiotics, so antibiotic susceptibility testing is required during treatment. This product contains all Real-time PCR components specific to A. xylosoxidans, including DNA polymerase, dNTPs, and reaction buffer. The users can easily prepare a 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 Tag 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 μΙ		
DEPC-D.W.	1.8 ml		
Positive Control (1x10 <sup>8</sup> copies/µI)	50 μΙ		

<sup>\*</sup> 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
	A. xylosoxidans Forward primer	1.0 µM
Oligo Miy	A. xylosoxidans Reverse primer	1.0 µM
Oligo Mix	A. xylosoxidans Probe (FAM)	1.0 µM
	ROX dye	1X

## **Specifications**

Taq DNA Polymerase			
5'→3' exonuclease activity	Yes		
3'→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

#### **Online Resources**



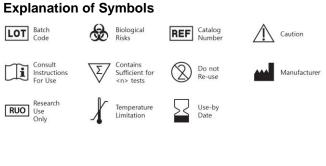
Visit our product page for additional information and protocols

### **Ordering Information**

Description	Cat. No.
AccuPower® Achromobacter xylosoxidans Real-	
Time PCR Kit, 1.25 ml of 2X Master Mix solution,	K-6867
100 tests	

#### **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.



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# **Experimental Procedures**

	Steps	Procedure Details			
1	Preparation of reaction mixture	Thaw all components of AccuPower® Achromobacter xylosoxidans Real-Time PCR     Kit on ice and mix thoroughly before use. Then, briefly spin down all components.			
2	Composition of reaction mixture	to the following list of com	Oligo Mix 5 μl  Template DNA 1-5 μl  DEPC-D.W. Variable		
3	Real-time PCR	3. Place PCR tubes or plate  4. Perform the reaction unde  Step  Pre-denaturation  Denaturation  Annealing & Extension  * Note: Users can adjust the proptimal results.  5. After the reaction is comp	Temperature  95°C  95°C  55°C  otocol according to their	ons.  Time 5 min 10 sec 20 sec instrument and temp	Cycles 1 cycle 45 cycles