[Cat. No.] K-6857

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Introduction

AccuPower[®] Klebsiella planticola Real-Time PCR Kit is a product that can specifically detect *Klebsiella planticola* (*K. planticola*) by real-time PCR.

K. planticola is a gram-negative bacillus that can be found in soil, water and plants, and some can be found in the human gastrointestinal tract. It mainly causes urinary tract and wound infections in humans with *K. pneumoniae*. It is also rarely the cause of pancreatitis. *K. planticola* is very similar in appearance to *K. pneumoniae*, so it is often confused but it can be identified by DNA analysis.

This product contains all Real-time PCR components specific to *K. planticola*, 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 *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 ⁸ 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 ₂	1X
	K. planticola Forward primer	0.6 µM
	K. planticola Reverse primer	0.6 µM
Oligo Mix	K. planticola Probe (FAM)	0.6 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.
<i>AccuPower</i> [®] Klebsiella planticola Real-Time PCR Kit, 1.25 ml of 2X Master Mix solution, 100 tests	K-6857

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



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Experimental Procedures

	Steps	Procedure Details				
1	Preparation of reaction mixture	1. Thaw all components of <i>AccuPower[®]</i> Klebsiella planticola 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	nponents (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	 3. Place PCR tubes or plate 4. Perform the reaction und Step Pre-denaturation Denaturation Annealing & Extension * Note: Users can adjust the proptimal results. 5. After the reaction is complete 	er the following conditi Temperature 95°C 95°C 55°C rotocol according to their	ons. Time 5 min 10 sec 20 sec instrument and temp	Cycles 1 cycle 45 cycles	

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