[Cat. No.] K-6800

Introduction

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

A. baumannii is a gram-negative bacterium known to primarily cause pathogenic pneumonia and recently found to be involved in infections of the central nervous system, skin and soft tissue, and bone. In addition, A. baumannii is a pathogen of concern for infections in public places because it has antibiotic resistance, dryness resistance, and disinfectant resistance. When the number of patients in a hospital increases due to war or an epidemic, it colonizes various facilities such as railings of hospital and infects groups of patients. Hence, A. baumannii is a pathogen that requires particular attention to prevent group infection in hospitals. This product contains all Real-time PCR components specific to A. baumannii, including DNA polymerase, dNTPs, and reaction buffer. The users can easily prepare reaction mixture simply by adding the 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 a 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 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
	A. baumannii Forward primer	0.4 µM
Oligo Miy	A. baumannii Reverse primer	0.4 µM
Oligo Mix	A. baumannii Probe (FAM)	0.4 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® Acinetobacter baumannii Real-Time	
PCR Kit, 1.25 ml of 2X Master Mix solution, 100	K-6800
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.

Explanation of Symbols



Experimental Procedures

	Steps	Procedure Details			
1	Preparation of reaction mixture	Thaw all components of <i>AccuPower</i> ® Acinetobacter baumannii 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 componer 2X Master Mix Oligo Mix Template DNA DEPC-D.W. Total volume	mponents (Based on 1	12. 5 1-test).	provided) referring ount 5 µl µl 5 µl able 5 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 poptimal results. 5. After the reaction is com	Temperature 95°C 95°C 55°C rotocol according to their	Time 5 min 10 sec 20 sec nstrument and temp	Cycles 1 cycle 45 cycles