

[Cat. No.] K-6865

Introduction

AccuPower® Morganella morganii Real-Time PCR Kit is a product that can specifically detect *Morganella morganii* (*M. morganii*) by real-time PCR.

M. morganii is a gram-negative bacterium that can be found in the intestines of humans and mammals. *M. morganii* is usually harmless, but infection can occur when the immune system is compromised after surgery or hospital-acquired infections. The risk of infection is particularly high when neutrophils are reduced as a result of chemotherapy. When an infection develops, it can cause sepsis, urinary tract infections, meningitis and even death. The use of antibiotics for treatment has a high success rate.

This product contains all Real-time PCR components specific to *M. morganii*, 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 μΙ
DEPC-D.W.	1.8 ml
Positive Control (1x10 ⁸ copies/µl)	50 μΙ

^{*} 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
	M. morganii Forward primer	0.4 µM
Oligo Miy	M. morganii Reverse primer	0.4 µM
Oligo Mix	M. morganii 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 label

Online Resources



English

Visit our **product page** for additional information and protocols

Ordering Information

Description	Cat. No.	
AccuPower® Morganella morganii Real-Time PCR	K-6865	
Kit, 1.25 ml of 2X Master Mix solution, 100 tests	N-0003	

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> Morganella morganii 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	5 μl NA 1-5 μl Variable		
3	3. Place PCR tubes or plate on the Real-Time Quantitative thermal cycler. 4. Perform the reaction under the following conditions. Step Temperature Time Cycles				