

[Cat. No.] K-6871

Introduction

AccuPower® Enterobacter hormaechei Real-Time PCR Kit is a product that can specifically detect Enterobacter hormaechei (E. hormaechei) by real-time PCR.

E. hormaechei is a gram-negative organism commonly isolated from clinical samples. It is mainly isolated from human sputum, gallbladder, and wound infections, and although it is rare, it is known to cause bloodstream infections. Its importance has been highlighted by pediatric sepsis outbreaks in the United States and Brazil. Since E. hormaechei has many bacteria with similar gene sequences, it is difficult to identify them accurately, so various analytical methods such as sequencing analysis and confirmation of biochemical characteristics must be performed in a complex manner. This product contains all Real-time PCR components specific to E. hormaechei, 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 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	
	E. hormaechei Forward primer	0.4 μΜ	
Oligo Mix	E. hormaechei Reverse primer	0.4 µM	
Oligo IVIIX	E. hormaechei 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® Enterobacter hormaechei Real-Time		
PCR Kit, 1.25 ml of 2X Master Mix solution, 100	K-6871	
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



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Experimental Procedures

	Steps	Procedure Details			
1	Preparation of reaction mixture	Thaw all components of <i>AccuPower®</i> Enterobacter hormaechei 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	Pre-denaturation 95°C 5 min 1 cy Denaturation 95°C 10 sec				Cycles 1 cycle 45 cycles