

[Cat. No.] K-6813

Introduction

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

E. faecium is a gram-positive bacterium mainly known to cause sepsis and, in rare cases, urinary tract infections and endocarditis. E. faecium is an enterococcus that is commonly found in intestine, oral cavity, and urethra, and is known to be highly resistant to antibiotics. It is rare to show pathogenicity in healthy people, but it is an opportunistic pathogen that causes urethral or wound infections in chronically ill patients.

This product contains all Real-time PCR components specific to *E. faecium*, including DNA polymerase, dNTPs, and reaction buffer. The users can easily prepare reaction mixture simply by adding only 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/µI)	50 μl		

^{*} Note: For research use only. Not for use in diagnostic or therapeutic procedures.

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. faecium Forward primer	0.4 µM
Oligo Miy	E. faecium Reverse primer	0.4 µM
Oligo Mix	E. faecium 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

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Description	Cat. No.
AccuPower® Enterococcus faecium Real-Time PCR	K-6813
Kit, 1.25 ml of 2X Master Mix solution, 100 tests	11-0013

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	Steps Procedure Details			
1	Preparation of reaction mixture	Thaw all components of AccuPower® Enterococcus faecium 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	Real-time PCR	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			

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