

[Cat. No.] K-6834

Introduction

AccuPower® Vibrio furnissii Real-Time PCR Kit is a product that can specifically detect Vibrio furnissii (V. furnissii) by real-time PCR. V. furnissii is a gram-negative, basophilic bacterium that can be easily found in the ocean. In general, you can become infected by eating contaminated, undercooked seafood or being exposed to warm ocean water. When infected, symptoms include acute gastroenteritis and diarrhea. V. furnissii and V. fluvialis are very similar in phenotypic characteristics. However, V. furnissii can be distinguished from V. fluvialis by gas production due to carbohydrate fermentation and genetic sequence differences.

This product contains all Real-time PCR components specific to *V. furnissii*, 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/µI)	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
	V. furnissii Forward primer	0.4 μΜ
Oligo Miy	V. furnissii Reverse primer	0.4 µM
Oligo Mix	V. furnissii Probe (FAM)	0.4 μΜ
	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® Vibrio furnissii Real-Time PCR Kit, 1.25 ml of 2X Master Mix solution, 100 tests	K-6834

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> Vibrio furnissii Real-Time PCR Kit on ice and mix thoroughly before use. Then, briefly spin down all components.			
2	Composition of reaction mixture		PCR tubes (not provided) or a plate (not provided) referring imponents (Based on 1 test). The second of the seco		
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			