

[Cat. No.] K-6853

Introduction

AccuPower® Vibrio fluvialis Real-Time PCR Kit is a product that can specifically detect Vibrio fluvialis (V. fluvialis) by real-time PCR. V. fluvialis can be found mainly in the oceans worldwide, and the frequency of detection in marine animals and shellfish is very high. In particular, raw oysters consumed during the warm season are the main source of infection. V. fluvialis infection causes diarrhea and acute gastroenteritis with symptoms such as diarrhea, abdominal pain and fever. The various virulence factors such as the hemolysin are known to trigger the disease. V. fluvialis is very similar in characteristics to V. furnissii, but can be distinguished by differences in the sequence of genes.

This product contains all Real-time PCR components specific to *V. fluvialis*, 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
dNTPs (dATP, dCTP, dGTP, dTTP)	Each 300 µM
Reaction buffer with 2 mM MgCl ₂	1X
V. fluvialis Forward primer	0.6 µM
V. fluvialis Reverse primer	0.6 µM
V. fluvialis Probe (FAM)	0.6 µM
ROX dye	1X
	Taq DNA Polymerase dNTPs (dATP, dCTP, dGTP, dTTP) Reaction buffer with 2 mM MgCl ₂ V. fluvialis Forward primer V. fluvialis Reverse primer V. fluvialis Probe (FAM)

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 fluvialis Real-Time PCR Kit, 1.25 ml of 2X Master Mix solution, 100 tests	K-6853

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 AccuPower® Vibrio fluvialis Real-Time PCR Kit on ice and mix thoroughly before use. Then, briefly spin down all components.			
2	Composition of reaction mixture		s into PCR tubes (not provided) or a plate (not provided) referring of components (Based on 1 test). Conents Amount 12.5 µl 5 µl 1-5 µl Variable 25 µl		
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			