[Cat. No.] K-2984

Introduction

AccuPower® Vibrio anguillarum Real-Time PCR Kit is a product that can detect Vibrio anguillarum (V. anguillarum), which causes hemorrhagic septicemia, by real-time PCR.

V. anguillarum causes vibriosis to fish and induces high mortality and economic loss in aquaculture. V. anguillarum is pathogenic to marine fish and crustaceans as well as farmed fish such as yellowtail, halibut and rainbow trout. Symptoms of V. anguillarum infection include blackening of the body, formation of ulcers, fin hemorrhage, and hemorrhagic septicemia.

This product contains all Real-time PCR components specific to *V. anguillarum*, including DNA polymerase, dNTPs, and reaction buffer. The users can easily prepare 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	
Oligo Mix	500 μl	
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 U
2X Master Mix	dNTPs (dATP, dCTP, dGTP, dTTP)	Each 300 µM
	Reaction buffer with 2 mM MgCl ₂	1X
	V. anguillarum Forward primer	0.4 μΜ
Oligo Miy	V. anguillarum Reverse primer	0.4 μΜ
Oligo Mix	V. anguillarum 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



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

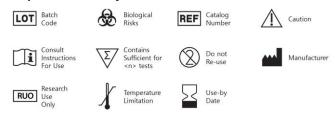
Ordering Information

Description	Cat. No.
AccuPower® Vibrio anguillarum Real-Time PCR Kit, 1.25 ml of 2X Master Mix solution, 100 tests	K-2984

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



Revision: 7 (2021-04-12)



Experimental Procedures

	Steps	Procedure Details			
1	Preparation of reaction mixture	Thaw all components of <i>AccuPower®</i> Vibrio anguillarum Real-Time PCR Kit on ice and mix thoroughly before use. Then, briefly spin down all components.			
2	Composition of reaction mixture	2. Add all components into PCR tubes (not provided) or a plate (not provided) to the following list of components (Based on 1 test). Components Amount 2X Master Mix Oligo Mix 5 μl Template DNA 1-5 μl DEPC-D.W. Variable Total volume 25 μl		ount .5 μl μl 5 μl iable	
3	Real-time PCR	3. Place PCR tubes or plate 4. Perform the reaction und Step Pre-denaturation Denaturation Annealing & Extension * Note: Users can adjust the proptimal results. 5. After the reaction is compared.	er the following condition Temperature 95°C 95°C 55°C rotocol according to their	ons. Time 5 min 10 sec 20 sec instrument and temp	Cycles 1 cycle 45 cycles

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