[Cat. No.] K-2980

Introduction

AccuPower® Vibrio harveyi Real-Time PCR Kit is a product that can specifically detect Vibrio harveyi (V. harveyi) by real-time PCR. V. harveyi is a Gram-negative bacterium, and only pathogenic to marine organisms. Infected marine organisms can cause eye lesions, muscle necrosis, body surface ulcers, and fin defects. Since it is difficult to visually diagnose the presence of infection, a PCR test is required for an accurate diagnosis.

This product contains all Real-time PCR components specific to *V. harveyi*, 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' sHotStart 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 µ lx 2
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
2X Master Mix	Taq DNA Polymerase	2 U
	dNTPs (dATP, dCTP, dGTP, dTTP)	Each 300 µM
	Reaction buffer with 2 mM MgCl ₂	1X
Oligo Mix	V. harveyi Forward primer	0.4 μΜ
	V. harveyi Reverse primer	0.4 μΜ
	V. harveyi 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



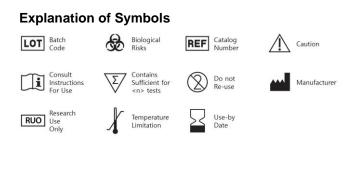
Visit our **product page** for additional information and protocols

Ordering Information

Description	Cat. No.
AccuPower® Vibrio harveyi Real-Time PCR Kit, 1.25 ml of 2X Master Mix solution, 100 tests	K-2980

Notice

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Experimental Procedures

	Steps	Procedure Details			
1	Preparation of reaction mixture	Thaw all components of AccuPower® Vibrio harveyi Real-Time PCR Kit on ice and mix thoroughly before use. Then, briefly spin down all components.			
2	Composition of reaction mixture	2X Master Mix 12. Oligo Mix 5 Template DNA 1-3 DEPC-D.W. Variable Variab		provided) referring ount 5 µl µl 5 µl iable 5 µl	
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