

[Cat. No.] K-2978

Introduction

AccuPower® Aeromonas hydrophila Real-Time PCR Kit is a product that can specifically detect Aeromonas hydrophila (A. hydrophila) by real-time PCR.

A. hydrophila is a gram-negative bacterium known to be one of the causative agents of fish pineal disease. A. hydrophila is mainly pathogenic to aquatic animals such as fish, amphibians and rarely to humans. Infection with A. hydrophila can result in ulceration, fin and tail rot, and hemorrhagic sepsis.

This product contains all Real-time PCR components specific to A. hydrophila, 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 (1x108 copies/µl)	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
	A. hydrophila Forward primer	0.6 µM
Oligo Mix	A. hydrophila Reverse primer	0.6 μΜ
Oligo iviix	A. hydrophila Probe (FAM)	0.6 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



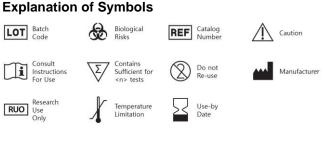
Visit our **product page** for additional information and protocols

Ordering Information

Description	Cat. No.
AccuPower® Aeromonas hydrophila Real-Time PCR Kit, 1.25 ml of 2X Master Mix solution, 100 tests	K-2978

Notice

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Experimental Procedures

	Steps	Procedure Details			
1	Preparation of reaction mixture	Thaw all components of <i>AccuPower®</i> Aeromonas hydrophila 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 con Componen 2X Master Oligo M Template I DEPC-D.	2X Master Mix Oligo Mix Template DNA		provided) referring ount 5 µl µl 5 µl iable 6 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 comp	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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