[Cat. No.] K-2915

Introduction

AccuPower[®] KHV Master Mix is a product which can detect koi herpesvirus (KHV), the cause of koi herpesvirus disease (KHVD), through real-time polymerase chain reaction (real-time PCR). This is the viral disease of carp and its clinical signs include pale or reddened body color, focal or total loss of epidermis, hemorrhage on the fin, endophthalmia, and excessive or reduced mucus secretion. KHVD occurs in Europe, Asia, the Middle East, Southern Africa, and North America.

This product contains all real-time PCR components specific to KHV, including RTase, DNA polymerase, primers, dNTPs, and reaction buffer. The users can easily prepare a reaction mixture simply by adding template DNA, internal positive control (IPC), 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 PyroHotStart RT reaction and 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		
Master Mix	1.5 ml		
Oligo Mix	400 µl		
Positive Control (2x10 ⁷ copies/µI)	50 µl		
Internal Positive Control (1x10 ⁵ copies/µI)	100 µl		
PC Dilution Buffer	1 ml		
DEPC-DW	1.3 ml		
* Note: For research use only. Not for use in diagnostic or therapeutic			

* Note: For research use only. Not for use in diagnostic or therapeutic procedures.

Composition

	Composition	25 μl reaction
	RocketScript [™] Reverse transcriptase	1 U
Master	<i>Taq</i> DNA polymerase	6 U
Mix	dNTPs (dATP, dCTP, dGTP, dTTP)	Each 300 µM
	Reaction buffer with 2 mM $MgCl_2$	1X
	KHV Forward primer	0.6 µM
	KHV Reverse primer	0.6 µM
	KHV Probe (FAM)	0.6 µM
Oligo Mix	IPC Forward primer	0.4 µM
	IPC Reverse primer	0.4 µM
	IPC Probe (Cy5)	0.4 µM
	ROX Dye	1X

Specifications

Taq DNA Polymerase				
5' \rightarrow 3' exonuclease activity	Yes			
$3' \rightarrow 5'$ 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 [®] KHV Master Mix,	K-2915	
1.5 ml of Master Mix solution, 100 tests	11 2010	

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



Copyright 2024 BIONEER Corporation. All Rights Reserved.

Experimental Procedures

	Steps		Procedure Details		
1	Preparation of reaction mixture	1. Before use, thaw all components of <i>AccuPower</i> [®] KHV Master Mix on ice and mix them thoroughly. Then, briefly spin down all components.			
2	Composition of reaction mixture	2. Add all components into components (based on 1 Componen Master Mix Oligo Mix Template DNA (Positive C Internal Positive Control Total volume	test). ts	Volur 1	owing list of ne (μΙ) 15 4 5 1 25
3	Real-time PCR	 3. Place PCR tubes or a plate 4. Perform the reaction und Step Pre-denaturation Denaturation Annealing & Extension * Note: Users can adjust the proprimal results. 5. After the reaction is complete 	er the following condition Temperature 95°C 95°C 55°C rotocol according to their in	ons. Time 5 min 5 sec 5 sec nstrument and temp	Cycles 1 cycle 45 cycles

Copyright 2024 BIONEER Corporation. All Rights Reserved.

2