[Cat. No.] K-2917

Introduction

AccuPower[®] TSV Master Mix is a product that can detect Taura syndrome virus (TSV), the cause of Taura syndrome in shrimp, through real-time polymerase chain reaction (real-time PCR). Clinical signs include partial hardening or white lesions in muscle tissue, and death may occur. TSV causes significant economic losses to shrimp aquaculture in Vietnam, Malaysia, Thailand, as well as several other Asian countries.

This product contains all real-time PCR components specific to TSV, including RTase, DNA polymerase, primers, dNTPs, and reaction buffer. The users can easily prepare a reaction mixture simply by adding template RNA, 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 RNA, 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 RNA.

Components

Amount
1.5 ml
400 µl
50 µl
100 µl
1 ml
1.3 ml

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

Composition

	Composition	25 μl reaction
	<i>RocketScript</i> [™] Reverse transcriptase	1 U
Master	Taq DNA Polymerase	6 U
Mix	dNTPs (dATP, dCTP, dGTP, dTTP)	Each 300 µM
	Reaction buffer with 2 mM $MgCl_2$	1X
	TSV Forward primer	0.6 µM
	TSV Reverse primer	0.6 µM
	TSV 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 [®] TSV Master Mix,	K-2917
1.5 ml of Master Mix solution, 100 tests	11-2017

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



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Experimental Procedures

	Steps	Procedure Details				
1	Preparation of reaction mixture	1. Before use, thaw all components of <i>AccuPower</i> [®] TSV Master Mix on ice and mix them thoroughly. Then, briefly spin down all components.				
2	Composition of reaction mixture	2. Add all components into 1 components (based on 1 Component Master Mix Oligo Mix Template RNA (Positive Co Internal Positive Control Total volume	test). ts	bes or a plate referring to the following list of Volume (μl) 15 4 5 1 25		
3	Real-time PCR	 3. Place PCR tubes or plate 4. Perform the reaction under Step Reverse transcription Pre-denaturation Denaturation Annealing & Extension * Note: Users can adjust the proptimal results. 5. After the reaction is complete 	er the following conditi Temperature 50°C 95°C 95°C 55°C totocol according to their	ons. Time 15 min 5 min 5 sec 5 sec instrument and temp	Cycles 1 cycle 1 cycle 45 cycles	

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