

#### [Cat. No.] K-2913

# Introduction

AccuPower® SVCV Master Mix is a product which can detect spring viremia of carp virus (SVCV), the causative agent of spring viremia of carp (SVC) through real-time polymerase chain reaction (real-time PCR). SVCV mainly infects carp and has a high mortality rate upon infection. It incurs serious economic losses not only in Korea but also in many countries in Europe (United Kingdom, Austria, France, Germany) and North America.

This product contains all real-time PCR components specific to SVCV, 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
- Sensitivity: By using BIONEER's PyroHotStart RT reaction and HotStart Tag 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

•	
Components	Amount
Master Mix	1.5 ml
Oligo Mix	400 µl
Positive Control (2x10 <sup>7</sup> copies/µI)	50 µl
Internal Positive Control (1x10 <sup>5</sup> copies/µl)	100 µl
PC Dilution Buffer	1 ml
DEPC-DW	1.3 ml

<sup>\*</sup> Note: For research use only. Not for use in diagnostic or therapeutic procedures.

#### Composition

	Composition	25 μl reaction
	RocketScript™ 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 <sub>2</sub>	1X
	VHSV Forward primer	0.6 µM
	VHSV Reverse primer	0.6 µM
Oligo Mix	VHSV Probe (FAM)	0.6 µM
	IPC Forward primer	0.4 μΜ
IVIIX	IPC Reverse primer	0.4 µM
	IPC Probe (Cy5)	0.4 µM
	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  $^{\circ}\text{C}.$  If stored in the recommended temperature, this product will be stable until the expiration date printed out on the

#### **Online Resources**



Visit our product page for additional information and protocols

#### Ordering Information

Description	Cat. No.
AccuPower® SVCV Master Mix,	L 0040
1.5 ml of Master Mix solution, 100 tests	K-2913

#### **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.

Revision: 7 (2021-04-12)



# **Experimental Procedures**

	Steps	Procedure Details			
1	Preparation of reaction mixture	Before use, thaw all components of <i>AccuPower®</i> SVCV 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	test).	Volume (μl)  15  4  5  1  25	
3	Real-time PCR	3. Place PCR tubes or a place 4. Perform the reaction und  Step  Reverse transcription Pre-denaturation Denaturation Annealing & Extension  * Note: Users can adjust the proptimal results.  5. After the reaction is comp	er the following condition  Temperature  50°C  95°C  95°C  55°C  otocol according to their i	Time 15 min 5 min 5 sec 5 sec nstrument and temp	Cycles 1 cycle 1 cycle 45 cycles