[Cat. No.] K-6926

Introduction

AccuPower[®] Crab Real-Time PCR Kit can specifically detect Crab DNA in food products.

There has been a rapid increase in the number of patients with food allergies. This is due to a hypersensitivity reaction of the immune system arising from an unbalanced diet and an unstable immune response. People allergic to any food must check every ingredient before having any processed food. Even a minor number of allergens can be fatal to them. This kit is highly sensitive to Crab DNA, which is one of the major allergies-triggering ingredients. This product contains all Real-time PCR components specific to Crab, including DNA polymerase, dNTPs, and reaction buffer. The users can easily prepare reaction mixture simply by adding the 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 a template DNA, Oligo Mix, and DEPC-D.W.
- Sensitivity: By applying the 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		
50X ROX dye [†]	100 µl		
DEPC-D.W.	1.8 ml		

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

[†] ROX dye is used for normalization of intensity by background subtraction. The use of ROX dye is recommended for Applied Biosystems 7500 Real-Time PCR System, but not required for BIONEER *Exicycler*[™] 96 Real-Time PCR System.

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	Crab Forward primer	1.2 µM
	Crab Reverse primer	1.2 µM
	Crab Probe (FAM)	1.2 µM
50X ROX dye		1X
DEPC-D.W.		-

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



English

Visit our product page for additional information and protocols

Ordering Information

Description	Cat. No.
AccuPower [®] Crab Real-Time PCR Kit, 1.25 ml of 2X Master Mix solution, 100 tests	K-6926

Notice

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Explanation of Symbols



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Experimental Procedures

	Steps	Procedure Details				
1	Preparation of reaction mixture	1. Thaw all components of <i>AccuPower</i> [®] Crab Real-Time PCR Kit on ice and mix thoroughly before use. Then, briefly spin down all components.				
		2. Add all component into PCR tubes (not provided) or a plate (not provided) under the following components (Based on 1 test).				
		Component	ts		ount	
		2X Master Mix		12.5 µl		
2	Composition of reaction mixture	Oligo Mix		5 µl		
		Template DNA		1-5 µl		
		(Optional) 50X ROX dye		1X		
		DEPC-D.W.		Variable		
		Total volume		25 µl		
3	Real-time PCR	 3. Place PCR tubes or plate 4. Perform the reaction under Step Pre-denaturation Denaturation Annealing & Extension * Note: Users can adjust the proptimal results. 5. After the reaction is composite 	er the following condition Temperature 95°C 95°C 55°C rotocol according to their	ons. Time 5 min 5 sec 5 sec instrument and terr	Cycles 1 cycle 45 cycles	

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