

#### [Cat. No.] K-6922

#### Introduction

AccuPower® Chicken Real-Time PCR Kit can specifically detect Chicken 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 Chicken DNA, which is one of the major allergies-triggering ingredients. This product contains all Real-time PCR components specific to Chicken, 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 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 DNA.

## Components

Components	Amount		
2X Master Mix	625 µl x 2		
Oligo Mix	500 μl		
50X ROX dye <sup>†</sup>	100 μΙ		
DEPC-D.W.	1.8 ml		

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

# Composition

Composition		25 µl reaction	
	Taq DNA Polymerase	2 U	
2X Master Mix	dNTPs (dATP, dCTP, dGTP, dTTP)	Each 300 µM	
	Reaction buffer with 2 mM MgCl <sub>2</sub>	1X	
	Chicken Forward primer	1.2 µM	
Oligo Mix	Chicken Reverse primer	1.2 μΜ	
	Chicken Probe (FAM)	1.2 µM	
50X ROX dye		1X	
DEPC-D.W.		-	

#### **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**



**English** 

Visit our product page for additional information and protocols

### **Ordering Information**

Description	Cat. No.
AccuPower® Chicken Real-Time PCR Kit, 1.25 ml of 2X Master Mix solution, 100 tests	K-6922

### **Notice**

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# **Explanation of Symbols**



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<sup>&</sup>lt;sup>†</sup> 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.



# **Experimental Procedures**

	Steps	Procedure Details			
1	Preparation of reaction mixture	Thaw all components of <i>AccuPower</i> ® Chicken Real-Time PCR Kit on ice and mix thoroughly before use. Then, briefly spin down all components.			
2	Composition of reaction mixture	2. Add all component into F following components (Baccomponent)  2X Master Mix Oligo Mix Template DNA (Optional) 50X ROX dye DEPC-D.W. Total volume	ased on 1 test).	<b>Am</b> 12. 5 1- 1 Var	provided) under the  ount  5 µl  µl  5 µl  X  iable  5 µl
3	Real-time PCR	3. Place PCR tubes or plate on the Real-Time Quantitative thermal cycler.  4. Perform the reaction under the following conditions.    Step   Temperature   Time   Cycle			