

# [Cat. No.] K-6850

## Introduction

AccuPower® Filifactor alocis Real-Time PCR Kit is a product that can specifically detect Filifactor alocis (F. alocis) by real-time PCR. F. alocis is a gram-positive bacterium known to cause periodontitis, cardiovascular disease and rheumatoid arthritis. Unlike other pathogens that cause periodontitis, F. alocis is mainly found in periodontal pockets. A periodontal pocket is a condition in which the gingival sulcus that exists between gingiva and tooth surface is abnormally deep. Another feature of F. alocis is that it causes perimplantitis, which causes inflammation of the soft tissue around the implant.

This product contains all Real-time PCR components specific to *F. alocis*, including DNA polymerase, dNTPs, and reaction buffer. The users can easily prepare a reaction mixture simply by adding 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 template DNA, Oligo Mix, and DEPC-D.W.
- Sensitivity: By using BIONEER's 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 ea		
Oligo Mix	500 μl		
DEPC-D.W.	1.8 ml		
Positive Control (1x10 <sup>8</sup> copies/µI)	50 μΙ		

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

# Composition

	Composition	25 μl reaction
	Taq DNA Polymerase	2.5 U
2X Master Mix	dNTPs (dATP, dCTP, dGTP, dTTP)	Each 300 µM
	Reaction buffer with 2 mM MgCl <sub>2</sub>	1X
	F. alocis Forward primer	0.4 µM
Oligo Miy	F. alocis Reverse primer	0.4 µM
Oligo Mix	F. alocis Probe (FAM)	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°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® Filifactor alocis Real-Time PCR Kit,	K 0050
1.25 ml of 2X Master Mix solution, 100 tests	K-6850

### **Notice**

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# **Explanation of Symbols**



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BQ-042-101-03 Revision: 7 (2021-04-12)



# **Experimental Procedures**

	Steps	Procedure Details			
1	Preparation of reaction mixture	Thaw all components of <i>AccuPower</i> ® Filifactor alocis Real-Time PCR Kit on ice and mix thoroughly before use. Then, briefly spin down all components.			
2	Composition of reaction mixture		PCR tubes (not provided) or a plate (not provided) referring mponents (Based on 1 test).  Amount  12.5 µl  5 µl  1-5 µl  Variable  25 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   Cycles			

Revision: 7 (2021-04-12)