

[Cat. No.] K-6851

Introduction

AccuPower® Porphyromonas gulae Real-Time PCR Kit is a product that can specifically detect *Porphyromonas gulae* (*P. gulae*) by real-time PCR.

P. gulae is a gram-negative bacillus isolated from the gums of Canadian wolves. P. gulae are mainly found in animals with periodontitis and also found in humans, the owner of animal. P. gulae infection induces an inflammatory response in the gums and damages tissues. P. gulae has various types of genes called FimA, which are known to play an important role in attaching to the oral cell surface.

This product contains all Real-time PCR components specific to P. gulae, 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 μΙ		
DEPC-D.W.	1.8 ml		
Positive Control (1x10 ⁸ copies/µI)	50 μΙ		

^{*} 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 ₂	1X
	P. gulae Forward primer	0.4 µM
Oligo Miy	P. gulae Reverse primer	0.4 µM
Oligo Mix	P. gulae 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® Porphyromonas gulae Real-Time PCR Kit. 1.25 ml of 2X Master Mix solution. 100 tests	K-6851

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	Thaw all components of <i>AccuPower®</i> Porphyromonas gulae 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			