[Cat. No.] K-6852

Introduction

AccuPower[®] Granulicatella adiacens Real-Time PCR Kit is a product that can specifically detect *Granulicatella adiacens* (*G. adiacens*) by real-time PCR.

G. adiacens is a gram-positive bacterium known to cause endocarditis, bacteremia and arthritis. *G. adiacens* is most commonly found among the genus *Granulicatella* present in the oral cavity. *G. adiacens* is a symbiotic on the human mucous membrane surface, so it is very rare that mucosal infections lead to disease. However, infection of intravascular or central nervous system can lead to bacteremia.

This product contains all Real-time PCR components specific to *G. adiacens*, 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 ⁸ copies/µI)	50 µl

* 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
	G. adiacens Forward primer	0.6 µM
	G. adiacens Reverse primer	0.6 µM
Oligo Mix	G. adiacens Probe (FAM)	0.6 µM
	ROX dye	1X

Specifications

Taq DNA Polymerase				
5' \rightarrow 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 [®] Granulicatella adiacens Real-Time PCR Kit, 1.25 ml of 2X Master Mix solution, 100 tests	K-6852

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	1. Thaw all components of <i>AccuPower</i> [®] Granulicatella adiacens 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 components into to the following list of com Componen 2X Master Mix Oligo Mix Template DNA DEPC-D.W. Total volume	ponents (Based on 1	CR tubes (not provided) or a plate (not provided) referring onents (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 4. Perform the reaction und Step Pre-denaturation Denaturation Annealing & Extension * Note: Users can adjust the proptimal results. 5. After the reaction is complete 	er the following conditi Temperature 95°C 95°C 55°C totocol according to their	ons. Time 5 min 10 sec 20 sec instrument and temp	Cycles 1 cycle 45 cycles	

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