[Cat. No.] K-6826

Introduction

AccuPower® Streptococcus intermedius Real-Time PCR Kit is a product that can specifically detect Streptococcus intermedius (S. intermedius) by real-time PCR.

S. intermedius is a gram-positive bacterium that causes periodontitis, purulent infections, or endocarditis. S. intermedius is a normal bacterial flora found in the mouth, upper respiratory tract, and gastrointestinal tract, but it is a pathogen rarely found in other organs in patients who have received oral treatment. S. intermedius was classified as S. anginosus before being named. Recently, cases have also been reported that S. intermedius helps in the process of causing purulent infection by S. anginosus.

This product contains all Real-time PCR components specific to S. intermedius, 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
- 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 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
	S. intermedius Forward primer	0.4 µM
Oligo Miy	S. intermedius Reverse primer	0.4 µM
Oligo Mix	S. intermedius 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

Online Resources



Visit our product page for additional information and protocols

Ordering Information

Description	Cat. No.
AccuPower® Streptococcus intermedius Real-Time	_
PCR Kit, 1.25 ml of 2X Master Mix solution, 100	K-6826
tests	

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



Revision: 7 (2021-04-12)

Experimental Procedures

Steps		Procedure Details			
1	Preparation of reaction mixture	Thaw all components of <i>AccuPower</i> ® Streptococcus intermedius 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 inponents (Based on 1 test). ts 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			