[Cat. No.] K-6848

Introduction

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

S. anginosus is a bacterium present in various organs of the human mouth, upper respiratory tract, gastrointestinal tract and vagina. S. anginosus belongs to the anginosus group or milleri group, which are streptococci that cause abscesses. It is mainly known to cause invasive purulent infections, gastrointestinal and genitourinary infections. S. anginosus strains are sensitive to penicillin and ampicillin, so treatment can be progressed by administering appropriate antibiotics.

This product contains all Real-time PCR components specific to S. anginosus, 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 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. anginosus Forward primer	0.6 µM
Oligo Miy	S. anginosus Reverse primer	0.6 µM
Oligo Mix	S. anginosus Probe (FAM)	0.6 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 anginosus Real-Time	
PCR Kit, 1.25 ml of 2X Master Mix solution, 100	K-6848
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



Experimental Procedures

Steps		Procedure Details			
1	Preparation of reaction mixture	Thaw all components of <i>AccuPower®</i> Streptococcus anginosus 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 components 2X Master Mix Oligo Mix Template DNA DEPC-D.W. Total volume	nponents (Based on 1	test). Am 12. 5 1-test)	provided) referring ount 5 µl µl 5 µl iable 5 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 poptimal results. 5. After the reaction is complete.	Temperature 95°C 95°C 55°C rotocol according to their i	Time 5 min 10 sec 20 sec	Cycles 1 cycle 45 cycles

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