[Cat. No.] K-6844

Introduction

AccuPower® Neisseria gonorrhoeae Real-Time PCR Kit is a product that can specifically detect Neisseria gonorrhoeae (N. gonorrhoeae) by real-time PCR.

N. gonorrhoeae is a gram-negative bacterium known to primarily cause gonorrhea and cause pelvic inflammatory disease (PID) or arthritis. N. gonorrhoeae is a representative pathogen that causes gonorrhea through sexual transmission in both men and women. Both men and women infected with gonorrhea often have no clear symptoms, and if they have symptoms, symptoms appear in the genitals. In particular, mothers should be careful of infection because there is a possibility of vertical transmission to newborns during childbirth.

This product contains all Real-time PCR components specific to N. gonorrhoeae, including DNA polymerase, dNTPs, and reaction buffer. The users can easily prepare 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 Tag 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/µl)	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
	N. gonorrhoeae Forward primer	0.4 μΜ
Oligo Mix	N. gonorrhoeae Reverse primer	0.4 µM
Oligo Mix	N. gonorrhoeae 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

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Description	Cat. No.
AccuPower® Neisseria gonorrhoeae Real-Time PCR Kit, 1.25 ml of 2X Master Mix solution, 100 tests	K-6844

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

Explanation of Symbols



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Experimental Procedures

	Steps	Procedure Details			
1	Preparation of reaction mixture	Thaw all components of <i>AccuPower</i> ® Neisseria gonorrhoeae Real-Time PCR Kit on ice and mix thoroughly before use. Then, briefly spin down all components.			
2	Composition of reaction mixture	to the following list of com	ligo Mix 5 µl emplate DNA 1-5 µl EPC-D.W. Variable		
3	Real-time PCR	3. Place PCR tubes or plate 4. Perform the reaction under Step Pre-denaturation Denaturation Annealing & Extension * Note: Users can adjust the proptimal results. 5. After the reaction is compared.	er the following conditi Temperature 95°C 95°C 55°C otocol according to their	ons. Time 5 min 10 sec 20 sec instrument and temp	Cycles 1 cycle 45 cycles