

[Cat. No.] K-6812

Introduction

AccuPower® Mycoplasma hominis Real-Time PCR Kit is a product that can specifically detect Mycoplasma hominis (M. hominis) by real-time PCR.

M. hominis is the bacterium that causes bacterial vaginosis, urethritis. It is present in small amounts in genitourinary system of almost everyone, so if you are in good health, this is nothing to worry about. But it does rarely cause sexually transmitted infections. It is associated with pelvic inflammatory disease, which can lead to ectopic pregnancy. If you become pregnant without healing it, it can cause miscarriage or postpartum infections. M. hominis does not have a cell wall, so antibiotics that weaken the cell wall, such as penicillin, are ineffective. Diagnosis can be made easily and accurately through a test that checks for bacteria mainly through urine.

This product contains all Real-time PCR components specific to M. hominis, 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 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
	M. hominis Forward primer	0.4 μΜ
Oligo Miy	M. hominis Reverse primer	0.4 µM
Oligo Mix	M. hominis 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® Mycoplasma hominis Real-Time PCR	K-6812
Kit, 1.25 ml of 2X Master Mix solution, 100 tests	

Notice

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Explanation of Symbols



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Experimental Procedures

	Steps	Procedure Details			
1	Preparation of reaction mixture	Thaw all components of <i>AccuPower</i> ® Mycoplasma hominis 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 PCR tubes (not provided) or a plate (not provided) referring to the following list of components (Based on 1 test). Components Amount 2X Master Mix 12.5 μl Oligo Mix 5 μl Template DNA 1-5 μl DEPC-D.W. Variable Total volume 25 μl			
3	Real-time PCR	3. Place PCR tubes or plate 4. Perform the reaction unde Step Pre-denaturation Denaturation Annealing & Extension * Note: Users can adjust the proptimal results. 5. After the reaction is comp	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

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