

[Cat. No.] K-6810

Introduction

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

M. catarrhalis is an aerobic, gram-negative bacterium that is responsible for respiratory inflammations and arthritis. It is also known to cause bronchitis, sinusitis, and laryngitis mainly through lung aspiration. In addition, it affects otitis media in adults and children. Although the genetic characteristics of the population have not been defined, it is frequently used for transformation. This product contains all Real-time PCR components specific to M. catarrhalis, 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 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
	M. catarrhalis Forward primer	0.32 µM
Oligo Miy	M. catarrhalis Reverse primer	0.32 µM
Oligo Mix	M. catarrhalis Probe (FAM)	0.32 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 label

Online Resources



English

Visit our **product page** for additional information and protocols

Ordering Information

Description	Cat. No.	
AccuPower® Moraxella catarrhalis Real-Time PCR	K-6810	
Kit, 1.25 ml of 2X Master Mix solution, 100 tests	11-0010	

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> Moraxella catarrhalis 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	5 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			