

[Cat. No.] K-6808

Introduction

AccuPower® Haemophilus influenzae Real-Time PCR Kit is a product that can specifically detect Haemophilus influenzae (H. influenzae) by real-time PCR.

H. influenzae is a bacterium that spreads through sneezing and coughing and causes otitis media, meningitis, and respiratory infections. It usually lives in the upper respiratory tract of children and adults. It leads to disease that occurs mainly in children and is rare in adults with healthy immune systems. In order to prevent the most pathogenic influenza B, children should receive the basic vaccination, and adults who are at high risk are also recommended to be vaccinated. For diagnosis, blood or other body fluids are taken to identify the bacteria. After identification additional tests are performed to determine which antibiotics are effective for treatment. This product contains all Real-time PCR components specific to H. influenzae, 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/µI)	50 µl

^{*} Note: For research use only. Not for use in diagnostic or therapeutic procedures.

Composition

	Composition	25 μl reaction
2X Master Mix	Taq DNA Polymerase	2.5 U
	dNTPs (dATP, dCTP, dGTP, dTTP)	Each 300 µM
	Reaction buffer with 2 mM MgCl ₂	1X
	H. influenzae Forward primer	0.6 µM
Oliga Miy	H. influenzae Reverse primer	0.6 µM
Oligo Mix	H. influenzae 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® Haemophilus influenzae Real-Time	
PCR Kit, 1.25 ml of 2X Master Mix solution, 100	K-6808
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



Copyright 2022 BIONEER Corporation. All Rights Reserved.

Revision: 7 (2021-04-12)



Experimental Procedures

	Steps	Procedure Details			
1	Preparation of reaction mixture	Thaw all components of <i>AccuPower</i> Haemophilus influenzae 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 I to the following list of com Component 2X Master Mix Oligo Mix Template DNA DEPC-D.W. Total volume	ponents (Based on 1	test). Ame 12. 5 1-t	provided) referring ount 5 µl µl 6 µl able 6 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			