[Cat. No.] K-2970

Introduction

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

M. haemolytica is a gram-negative bacterium known as one of the causative agents of pneumonia. M. haemolytica is pathogenic to cattle and goats and can cause coughing, fever, and loss of appetite when infected.

This product contains all Real-time PCR components specific to M. haemolytica, 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	
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
	Taq DNA Polymerase	2 U
2X Master Mix	dNTPs (dATP, dCTP, dGTP, dTTP)	Each 300 µM
	Reaction buffer with 2 mM MgCl ₂	1X
	M. haemolytica Forward primer	0.24 μM
Oligo Miy	M. haemolytica Reverse primer	0.24 µM
Oligo Mix	M. haemolytica Probe (FAM)	0.24 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



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

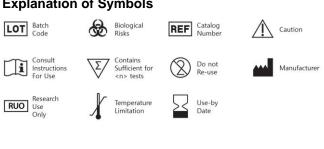
Ordering Information

Description	Cat. No.
AccuPower® Manheimia haemolytica Real-Time PCR Kit, 1.25 ml of 2X Master Mix solution, 100 tests	K-2970

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



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Revision: 7 (2021-04-12)



Experimental Procedures

	Steps	Procedure Details			
1	Preparation of reaction mixture	Thaw all components of <i>AccuPower</i> ® Manheimia haemolytica 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) to the following list of components (Based on 1 test). Components 2X Master Mix Oligo Mix 5 µl Template DNA DEPC-D.W. Variable Total volume 25 µl		ount 5 μl μl 5 μl iable	
3	Real-time PCR	3. Place PCR tubes or plat 4. Perform the reaction und Step Pre-denaturation Denaturation Annealing & Extension * Note: Users can adjust the poptimal results. 5. After the reaction is com	Temperature 95°C 95°C 55°C orotocol according to their	ons. Time 5 min 10 sec 20 sec instrument and temp	Cycles 1 cycle 45 cycles