# [Cat. No.] K-6807

#### Introduction

AccuPower® Gardnerella vaginalis Real-Time PCR Kit is a product that can specifically detect Gardnerella vaginalis (G. vaginalis) by real-time PCR.

G. vaginalis is an anaerobic bacterium that causes bacterial vaginosis. It is one of the bacteria in the vagina, but when it is out of balance with the other bacteria in the vagina or when a woman's immunity is low, they overgrow and cause bacterial vaginosis. If left untreated, it can lead to complications such as pelvic inflammatory disease, pelvic rupture, and fallopian tube obstruction. Also, during pregnancy, amniotic fluid may affect the baby or cause premature birth or postpartum endometritis. In order to confirm the presence of bacteria, it is necessary to conduct a test through real-time PCR after sample collection.

This product contains all Real-time PCR components specific to *G. vaginalis*, 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 µl
DEPC-D.W.	1.8 ml
Positive Control (1x10 <sup>8</sup> copies/µI)	50 µl

<sup>\*</sup> 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 <sub>2</sub>	1X
	G. vaginalis Forward primer	0.4 µM
Oligo Miy	G. vaginalis Reverse primer	0.4 µM
Oligo Mix	G. vaginalis 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 label

#### **Online Resources**



English

Visit our product page for additional information and protocols

#### **Ordering Information**

Description	Cat. No.	
AccuPower® Gardnerella vaginalis Real-Time PCR	I/ C007	
Kit, 1.25 ml of 2X Master Mix solution, 100 tests	K-6807	

#### **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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# **Experimental Procedures**

Steps		Procedure Details			
1	Preparation of reaction mixture	Thaw all components of <i>AccuPower</i> ® Gardnerella vaginalis 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	Mix 5 μl late DNA 1-5 μl C-D.W. Variable		
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			