

## [Cat. No.] K-6805

### Introduction

AccuPower® Campylobacter jejuni Real-Time PCR Kit is a product that can specifically detect Campylobacter jejuni (C. jejuni) by real-time PCR.

C. jejuni is a gram-negative bacterium that causes
Campylobacteriosis. C. jejuni is known to cause acute
gastroenteritis, as C. coli, another bacterium of the genus
Campylobacter. It is most commonly infected by eating insufficiently
cooked meat such as that of cattle, pig, or poultry and is
accompanied by symptoms such as diarrhea, stomachache, and
fever. In particular, Campylobacteriosis accounts for 5 to 14% of the
causes of diarrhea worldwide. In most cases, recovery takes 2 to 5
days, but some patients with weakened immunity may become
chronically ill.

This product contains all Real-time PCR components specific to *C. jejuni*, 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 <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
	C. jejuni Forward primer	0.4 μΜ
Oligo Miy	C. jejuni Reverse primer	0.4 µM
Oligo Mix	C. jejuni 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® Campylobacter jejuni Real-Time PCR	K 0005	
Kit, 1.25 ml of 2X Master Mix solution, 100 tests	K-6805	

#### 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> Campylobacter jejuni Real-Time PCR Kit on ice and mix thoroughly before use. Then, briefly spin down all components.			
2	Composition of reaction mixture		ts into PCR tubes (not provided) or a plate (not provided) referring to f components (Based on 1 test).  Ponents  Amount  12.5 µl  5 µl  1-5 µl  Variable  25 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			