

VIASURE

Campylobacter Real Time PCR Detection Kit

Pathogen and product description

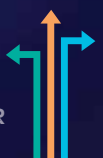
The *Campylobacter* genus belongs to the family *Campylobacteraceae*. The most common species of *Campylobacter* associated with human illness are *C. jejuni* and *C. coli*, but other species can also cause human infections.

Campylobacteriosis is the most prevalent foodborne bacterial infection. Risk factors include consumption of animal products and water, contact with animals, and even person-to-person transmission (fecal-oral or via fomites).

Infection with *Campylobacter* causes gas-

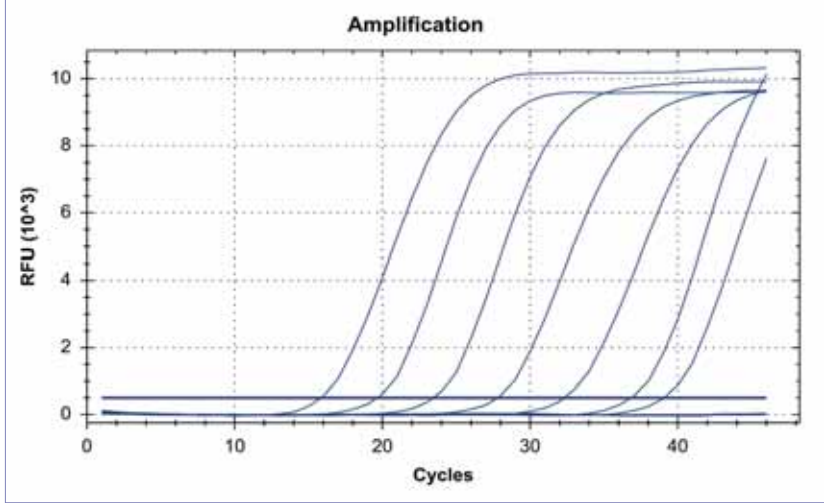
troenteritis characterised by fever, vomiting, headaches, and abdominal pain with watery or bloody diarrhea.

VIASURE *Campylobacter* Real Time PCR Detection Kit is designed for the diagnosis of gastroenteritis caused by *Campylobacter* in human stool samples. After DNA isolation, the identification of *Campylobacter* is performed by the use of target specific primers and a fluorescent-labeled probe that hybridizes to a conserved region with the 16S rRNA gene.



Analytical sensitivity

VIASURE *Campylobacter* Real Time PCR Detection Kit has a detection limit of ≥ 10 DNA copies per reaction



Dilution series of *Campylobacter* (10^7 - 10^1 copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System

Components

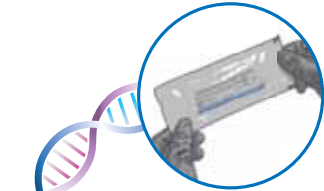
Reagent/Material	Description	Quantity
<i>Campylobacter</i> 8-well strips	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	6/12 X 8-well strip
<i>Campylobacter</i> 96-well plate	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	1 plate
Rehydration Buffer	Solution to reconstitute the stabilized product	1 vial x 1,8 mL
<i>Campylobacter</i> Positive Control	Non-infectious synthetic lyophilized DNA	1 vial
Negative Control	Non template control	1 vial x 1 mL
Water RNase/DNase free	Water RNase/DNase free	1 vial x 1 mL
Tear-off 8-cap strips	Optical caps for sealing wells during thermal cycling	6/12 X 8 cap strip
Shell Frame Grid	Shell Frame Grid	1 or 2

Kit References

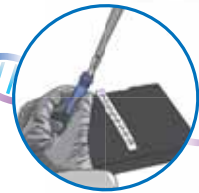
Reference	Description
VS-CAM106L	Viasure <i>Campylobacter</i> Real Time PCR Detection Kit 6 x 8-well strips, low profile
VS-CAM106H	Viasure <i>Campylobacter</i> Real Time PCR Detection Kit 6 x 8-well strips, high profile
VS-CAM112L	Viasure <i>Campylobacter</i> Real Time PCR Detection Kit 12 x 8-well strips, low profile
VS-CAM112H	Viasure <i>Campylobacter</i> Real Time PCR Detection Kit 12 x 8-well strips, high profile
VS-CAM113L	Viasure <i>Campylobacter</i> Real Time PCR Detection Kit 96-well plate, low profile
VS-CAM113H	Viasure <i>Campylobacter</i> Real Time PCR Detection Kit 96-well plate, high profile

Work Flow

One-step rehydration of wells and add your extracted DNA



STEP 1
Separate the number of required strips you need



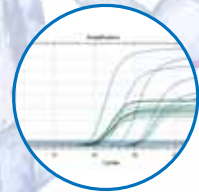
STEP 2
Add 15 μ l of rehydration buffer into each well



STEP 3
Add 5 μ l of DNA sample / positive control / negative control



STEP 4
Load the strips into the thermocycler and run the specified protocol



STEP 5
Interpretate results