

**foodproof®**

## **Campylobacter Detection Kits**

The genus *Campylobacter* is a group of spiral-shaped bacteria which comprises more than 20 species. *Campylobacter* is one of the most common bacterial causes of diarrheal illness in humans. Up to 90 percent of all infections are caused by *C. jejuni* and about 10 to 20 percent by *C. coli*, but other species can also cause disease. In addition, Guillain-Barré syndrome occurs more frequently after infections with *Campylobacter jejuni*. In most of the cases, the bacteria are transmitted by food (mainly raw poultry and raw milk products), but also by surface water contaminated with feces. With the **foodproof *Campylobacter* real-time PCR kits**, thermotolerant *Campylobacter* can be reliably detected in food enrichment cultures or precisely quantified in rinse or swab samples. The kits also include the identification of *C. jejuni* and *C. coli* (KIT 2300 41), or identification of *C. jejuni*, *C. coli* and *C. fetus* (KIT 2300 67).

**Fast:** Results in 2 - 24 h with < 40 min of hands-on time.

**Safe:** Prevention of false-negative results by internal control and prevention of carry-over contamination using Uracil-N-Glycosylase.

**Sensitive:** Detects 1-10 CFU/25 g in food samples. Quantification down to 10<sup>3</sup> CFU/mL in rinse samples.

**Easy:** Convenient, complete solution, including DNA extraction and real-time PCR analysis.

### **Best Specificity**

#### **100% Inclusivity**

218 *Campylobacter* strains of 6 species tested.

#### **100% Exclusivity**

60 strains tested, including closely related organisms and microorganisms of the same environmental habitat.

### **Matrices**

All relevant food matrices tested, including poultry, fish, cheese and environmental samples.

### **Identification of Species**

#### **foodproof *Campylobacter* Detection Kit:**

Detection of thermotolerant *Campylobacter*; identification of the species *C. coli*, *C. jejuni* and *C. fetus* by melting curve analysis.

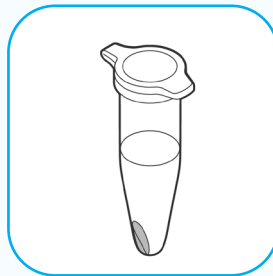
#### **foodproof *Campylobacter* Quantification Kit:**

Quantification of *Campylobacter* spp. and identification of the species *C. coli* and *C. jejuni* in separate detection channels.

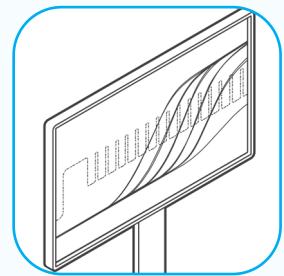
## Workflow



**Enrichment or  
rinse sample**



**DNA Extraction**  
approx. 30 min



**Real-time PCR**  
60 - 100 min

## DNA Extraction Kits

**foodproof StarPrep® One Kit**  
KIT 2301 75

**foodproof ShortPrep® II Kit**  
KIT 2301 71

## Tests

100

96

## DNA Extraction

**foodproof StarPrep One Kit** enables the extraction of *Campylobacter* DNA from food enrichment cultures or direct rinse or swab samples.

## Real-Time PCR Kits

**foodproof Campylobacter Detection Kit (LC 1.x, 2.0, 480 II)**  
KIT 2300 67

**foodproof Campylobacter Quantification Kit (5'Nuclease)**  
KIT 2300 41

## Tests

96

96

## Instrument Compatibility

e.g., Dualo 32® R<sup>2</sup>, LightCycler® 480, LightCycler® 96, AriaMx, Bio-Rad CFX96™, Applied Biosystems™ 7500 Fast, QuantStudio™

Other cyclers on request.



**Hygiena®**

Camarillo, CA 93012  
USA

[www.hygiena.com](http://www.hygiena.com)

[diagnostics.support@hygiena.com](mailto:diagnostics.support@hygiena.com)