

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 10³ 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.

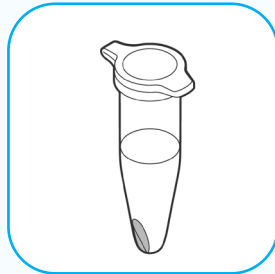
foodproof *Campylobacter* Quantification Kit:

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

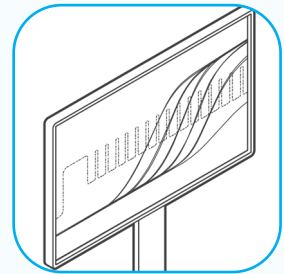
Workflow



**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® R², LightCycler® 480, LightCycler® 96, AriaMx, Bio-Rad CFX96™, Applied Biosystems™ 7500 Fast, QuantStudio™

Other cyclers on request.



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