The genus *Campylobacter* is a group of spiral-shaped bacteria which comprises more than 20 species. Most human illness is caused by the species *Campylobacter jejuni*, but 1-10% of human *campylobacteriosis* cases are caused by other species. 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 use of foodproof® *Campylobacter* Detection Kit and foodproof® *Campylobacter* Quantification Kit, bacteria can be detected qualitatively and quantitatively, respectively.

The foodproof® *Campylobacter* Detection Kit and the foodproof® *Campylobacter* Quantification Kit are based on real-time PCR technology, which is well-established in the food industry as a highly sensitive and specific detection method.

**Fast:** 2–24 h to result 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 $10^3$ cfu/ml in rinse samples

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

**Experienced:** Manufacturer of PCR-based rapid tests for the food industry since 1998 with an ISO 17025 accredited service lab

**Licensed:** Fully licensed technology

**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**

In addition to genus detection (R 310 05):
- Thermotolerant: *C. jejuni*, *C. coli*, *C. lari*, *C. upsaliensis*
- Other *Campylobacter*: *C. fetus*, *C. hyointestinalis*
Workflow

**Campylobacter Detection and Quantification Kits**

R 310 05  **foodproof® Campylobacter** Detection Kit (LC 1.x, 2.0, 480 II)
R 302 05  **foodproof® Campylobacter** Quantification Kit (5' Nuclease)

**Specific DNA Extraction Kits**

S 400 02  **foodproof® ShortPrep II** - rapid purification
S 400 05  **foodproof® Sample Preparation Kit II** - high quality column purification
S 400 07  **foodproof® Star Prep One Kit** - bulk purification

**DNA Extraction**

**foodproof® ShortPrep II Kit** enables the extraction of Campylobacter DNA from food matrix enrichments

**Instrument Compatibility**

- LightCycler 480 II, LC 96
- 5'Nuclease / TaqMan® cycler (e.g. PikoReal 24, AriaMx, CFX96, ABI 7500)

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