



foodproof®

Campylobacter Kits

Detection, Identification and Quantification

For safer food – BIOTEC CON Diagnostics – simply builds up trust!

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 10³ 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*





BIOTECON Diagnostics

Workflow



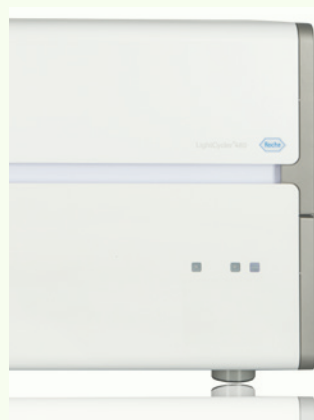
Start
Enrichment



DNA Extraction
approx. 30 min



PCR Setup
approx. 10 min



Real-time PCR Run
60 - 100 min

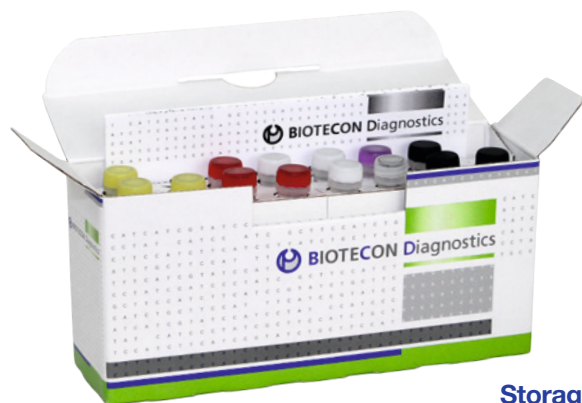
Analysis Results in 2,5 h

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



Storage at -15 °C to -25 °C
96 Reactions with a final volume of 20 or 25 µl

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® cyclers
(e.g. PikoReal 24, AriaMx,
CFX96, ABI 7500)

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