


foodproof®

E. coli O157 Detection Kits

Hybridization and Hydrolysis Probes

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

Enterohemorrhagic *E. coli* (EHEC) like *E. coli* O157:H7 and *E. coli* O157:H- are known to cause different diseases like diarrhea, hemorrhagic colitis (HC) and the potentially fatal hemolytic uremic syndrome (HUS). *E. coli* O157 is most commonly transmitted through undercooked minced meat, unpasteurized or inadequately pasteurized milk, cold sandwiches, sprouts and vegetables. As most of these foods have relatively short shelf lives, the need for a rapid, accurate and sensitive detection method is a major food safety issue.

The **foodproof® *E. coli* O157 Detection Kits** are based on real-time PCR technology, which is well-established in the food industry as a highly sensitive and specific detection method.

Fast: 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: Validated to detect 1–10 cfu/25 g of enriched food 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

- > 60 *E. coli* O157 strains tested

100% Exclusivity

- > 120 strains tested, including closely related organisms and microorganisms of the same habitat

Matrices

> 100 tested food matrices, including meat, seafood, milk, fruits, vegetables and environmental samples

Approvals



Workflow



E. coli O157 Detection Kits

- R 300 10 foodproof® E. coli O157 Detection Kit (LC 1.x, 2.0)
- R 302 10 foodproof® E. coli O157 Detection Kit (5'Nuclease)

Matrix-Specific DNA Extraction Kits

- S 400 02 foodproof® ShortPrep® II Kit - rapid extraction
- S 400 04 foodproof® Sample Preparation Kit I - high quality column purification
- S 400 07 foodproof® StarPrep One Kit - bulk extraction
- S 400 11 foodproof® Magnetic Preparation Kit I - automated purification



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

DNA Extraction (approx. 30 min)

- E.g. foodproof® ShortPrep II Kit
- enables the extraction of E. coli DNA from food samples

Instrument Compatibility

- LightCycler®
- 5'Nuclease / TaqMan® cyclers (e.g. CFX96, AriaMX, ABI 7500)

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