For safer food – BIOTECON Diagnostics – simply builds up trust!

Shigatoxin producing *E. coli* (STEC) like *E. coli* O157:H7, *E. coli* O157:H- or *E. coli* O104:H4 are known to cause different diseases like diarrhea, hemorrhagic colitis (HC) and the potentially fatal hemolytic uremic syndrome (HUS). STEC are 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*® STEC Screening and Identification Kits are based on real-time PCR technology, which is well-established in the food industry as a highly sensitive and specific detection method. The *foodproof*® STEC Identification LyoKit can detect and identify the eight most important STEC serotypes in just one single PCR test. The completely new and unique assay design enables melting curve analysis with sequence specific 5’Nuclease-probes, whereby highest specificity is achieved.

**Fast:** < 24 h to result with < 40 min of hands-on time

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

**Safe:** Prevention of false-positive results and carry-over contamination by using Uracil-N-Glycosylase

**Sensitive:** Validated to detect 1–10 cfu/25 g sample, including enrichment

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

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**Best Specificity**

**100% Inclusivity**
STEC screening provides individual answers for stx1, stx2, and eae genes in one reaction

**100% Exclusivity**
> 120* and > 50** 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**

AOAC approved for “All Kind of Foods”

* R 300 10, R 302 10
** R 602 11, R 602 12
Workflow

**STEC Detection Kits**
- **R 602 11** foodproof® STEC Screening LyoKit (5’ Nuclease)
  Detection of the virulence genes stx1, stx2 and eae
- **R 602 12** foodproof® STEC Identification LyoKit (5’ Nuclease)
  Identification of the 8 most important serogroups (O26, O45, O103, O104, O111, O121, O145 and O157)
- **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)

**Specific DNA Extraction Kits**
- **S 400 02** foodproof® ShortPrep II Kit - rapid purification
- **S 400 04** foodproof® Sample Preparation Kit I - high quality column purification
- **S 400 07** foodproof® StarPrep One Kit - bulk purification
- **S 400 18** foodproof® StarPrep Three Kit - bulk purification (for R 602 11 & R 602 12)
- **S 400 11** foodproof® Magnetic Preparation Kit I - automated purification

**Lyophilized Format!**
- Convenient, lyophilized, pre-filled reaction mix
- With internal amplification control and our proven UNG-System
- Easy storage

**Storage** at -15 °C to -25 °C
**LyoKits storage** at 2 °C to 8 °C
**96 Reactions** with final volume of 20 or 25 µl

**Safe and Specific**
The STEC Screening LyoKit detects stx1, stx2 and eae
The stx2f variant is included, which will not be detected using the ISO TS 13136 method

**Instrument Compatibility**
- LightCycler 480, LC 96
- 5’Nuclease / TaqMan® cycler (e.g. PikoReal 24, AriaMx, CFX96, ABI 7500)

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