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## foodproof®

# **STEC Detection Kits**

**Screening and Identification** 

### 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.

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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 Easy: Convenient, complete solution hands-on time

Safe: Prevention of false-positive results and carry-over contamination Experienced: Manufacturer of PCRby using Uracil-N-Glycosylase

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

including DNA extraction and real-time PCR analysis

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based rapid tests for the food industry since 1998 with an ISO 17025 accredited service lab

**Diagnostics** 

#### **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

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# Workflow



### **STEC Detection Kits**

R 602 11	foodproof <sup>®</sup> STEC Screening LyoKit (5' Nuclease)	
	Detection of the virulence genes <i>stx1</i> , <i>stx2</i> and <i>eae</i>	

- R 602 12 **food**proof<sup>®</sup> 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 <sup>®</sup>	ShortPrep II Kit - rapid purification
S 400 04	$\textbf{food} proof^{\texttt{®}}$	Sample Preparation Kit I - high quality column purification
S 400 07	$\textbf{food} proof^{\texttt{®}}$	StarPrep One Kit - bulk purification
S 400 18	foodproof <sup>®</sup>	StarPrep Three Kit - bulk purification (for R 602 11 & R 602 12)
S 400 11	foodproof <sup>®</sup>	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<sup>®</sup> cycler (e.g. PikoReal 24, AriaMx, CFX96, ABI 7500)

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