

A T C A T C G T A T C C A T C C C T A T C C A T C C C T
T C A T C C C T A T C G C T T C C A T C T G C T T C A
A T C T T C A T C C G T A T C T G C T T C C A T C T G C T
C C A T T T C A T C C G T A T C
G C T T C C A T C C C T A T C G C
T C A T C C A T C C C T A T C T G C T T C C A T C T G C T



BIOTECON Diagnostics

foodproof®

Salmonella Genus plus Enteritidis & Typhimurium Detection LyoKit

5'Nuclease

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

The genus *Salmonella*, member of the *Enterobacteriaceae* family, comprises the two species *S. enterica* and *S. bongori*. *S. enterica* is further divided into six subspecies, of which *S. enterica* subspecies I enterica is the most clinically relevant, causing 99% of *Salmonella* infections. The subspecies are further sub-divided into more than 2,000 serovars defined by somatic and flagellar antigens. *S. Enteritidis* and *S. Typhimurium*, both belonging to the subspecies I, are the most frequently reported serovars associated with human cases of *Salmonella* infections arising from foodborne outbreaks in the EU.

The **foodproof®** *Salmonella* Genus plus Enteritidis & Typhimurium Detection LyoKit contains all necessary real-time PCR reagents needed for the fast detection of *Salmonella* spp., *S. Enteritidis* and *S. Typhimurium* DNA as well as a control template for reliable interpretations of the results.

Fast: 12-24 h to result with < 30 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: 10³ cfu *Salmonella* / ml or less can be detected in food enrichment cultures

Convenient: Lyophilized kit enables detection of three parameters in one assay with few pipetting steps

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

- 204 strains tested:
63 *Salmonella* Enteritidis field and vaccine strains, including 20 different phage types
59 *Salmonella* Typhimurium field strains, including mono-/biphasic variants
82 *Salmonella* spp. strains: *S. bongori* and *S. enterica* including all five subspecies

100% Exclusivity

- No false positive results were detected with 27 closely related non-target microorganisms

Matrices

Raw meat, processed meat, eggs and egg products, primary production samples (PPS) like boot socks, environmental samples and animal feed

Approvals

ISO 16140 validation by NordVal in progress

A T C A T C G T A T C C A T C C C T A T C C A T C C C T
T C A T C C C T A T C G C T T C C A T C T G C T T C A
A T C T T C A T C C G T A T C T G C T C C A T C T G C T
C C A T T T C A T C C G T A T C
G C T T C C A T C C C T A T C G C
T C A T C C A T C C C T A T C T G C T T C C A T C T G C T



BIOTEC CON Diagnostics

Workflow



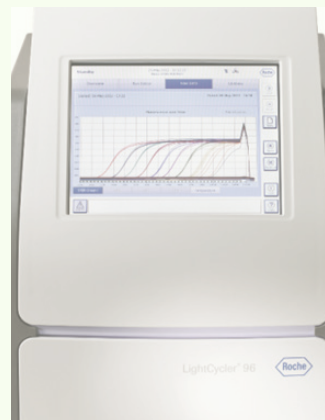
Enrichment
12-24 h



DNA Extraction
approx. 30 min



PCR Setup
approx. 10 min



Real-time PCR Run
60 min - 100 min

Analysis Results in < 2.5 h*

*without enrichment time

Salmonella Genus plus Enteritidis & Typhimurium Detection LyoKit

R 602 59 **foodproof®** Salmonella Genus plus Enteritidis & Typhimurium Detection LyoKit
- 96 reactions

DNA Extraction Kits

- S 400 07 **foodproof®** StarPrep One Kit - bulk purification, 100 isolations
- S 400 14 L **foodproof®** StarPrep One 8-Strip Kit - high-throughput purification, 480 isolations
- S 400 11 L **foodproof®** Magnetic Preparation Kit I - automated purification, isolations
- S 400 18 **foodproof®** StarPrep Three Kit - bulk purification, 100 isolations
- S 400 18 L **foodproof®** StarPrep Three 8-Strip Kit - high-throughput purification, 480 isolations



LyoKits

- Convenient, lyophilized, pre-filled reaction mix
- Easy storage

Storage at 2 °C to 8 °C
96 reactions with final volume of 25 µl

DNA Extraction

foodproof® StarPrep Three Kit & **foodproof®** StarPrep Three 8-Strip Kit

- enable the extraction of *Salmonella* DNA from food sample enrichments

Instrument Compatibility

LightCycler® 480, LightCycler® 96, LightCycler® 1.X, LightCycler® 2.0, PikoReal® 24, AriaMx, CFX96™, Applied Biosystems™ 7500 Fast, QuantStudio™ and others

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