

Supplied by:

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C A T C C C T A T C C A T C C C T
C G C T T C C A T C T G C T T C A
T A T C T G C T T C C A T C T G C T
C G T A T C
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BIOTEC CON Diagnostics

foodproof®

Listeria Genus Detection Kits

Hybridization and Hydrolysis Probes

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

Listeria are rod-shaped, Gram-positive, nonspore-forming bacteria. They cause listeriosis, a rare but lethal foodborne infection. *Listeria* are transmitted through contaminated food which is often of animal origin, such as raw milk cheeses, poultry, raw and cooked fish, but also by raw fruit and vegetables. Generally, they are very resistant to stress and able to grow at temperatures ranging from 4 °C to 37 °C.

The **foodproof® Listeria Genus 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. New rapid enrichment media reduces the enrichment time to max. 22 h

Safe: Prevention of false-negative results by internal control and prevention of carry-over contamination using Uracil-N-Glycosylase

Easy: Convenient, complete solution included 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

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

Best Specificity

100% Inclusivity

- A total of 105 *Listeria* strains of 7 *Listeria* species tested

100% Exclusivity

- 56 strains tested including closely related organisms and microorganisms of the same habitat

Matrices

> 25 tested food samples, including critical matrices like raw milk, cheese, ground meat and environmental samples



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

Workflow



Rapid Enrichment
22 h



DNA Extraction
approx. 30 min



PCR Setup
approx. 10 min



Real-time PCR Run
60 - 110 min

Analysis Results in 2.5 h

Listeria Genus Detection Kits

- R 300 20 **foodproof®** Listeria Genus Detection Kit (LC 1.x, 2.0)
- R 302 20 **foodproof®** Listeria Genus Detection Kit (5' Nuclease)
- R 602 20 **foodproof®** Listeria Genus Detection LyoKit (5' Nuclease)

Specific DNA Extraction Kits

- S 400 02 **foodproof®** ShortPrep® II Kit - rapid extraction
- S 400 05 **foodproof®** Sample Preparation Kit II - high quality column purification
- S 400 08 **foodproof®** StarPrep Two Kit - bulk extraction
- S 400 12 L **foodproof®** Magnetic Preparation Kit II - automated purification

Enrichment Media

- Z 800 01 **foodproof®** Listeria StarBroth



Storage Liquid Kits at -15 °C to -25 °C

Storage LyoKits at 2 °C to 8 °C

96 Reactions with final volume of 20 or 25 µl

DNA Extraction (approx. 30 min)

E.g. **foodproof®** ShortPrep II Kit

- enables the extraction of Listeria DNA from food matrix enrichments

Instrument Compatibility

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

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