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DiagnosTics

foodproof®

Listeria monocytogenes Detection Kits

Real-time PCR Assays

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

Listeria monocytogenes is known to be responsible for listeriosis, a rare but often lethal food-borne infection with a lethality rate of up to 25%. Usually *Listeria* is transmitted through contaminated food, such as raw milk, cheeses, raw and cooked poultry, raw meats, ice cream, raw or smoked fish and raw vegetables. *Listeria* is very resistant and able to grow in temperatures ranging from 4 °C to 37 °C.

The **foodproof®** *Listeria monocytogenes* Detection Kits is 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 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

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

Best Specificity

100% Inclusivity

- > 100 *L. monocytogenes* strains tested
- 60 strains tested including closely related organisms and microorganisms of the same habitat

Matrices

All relevant food matrices tested, including milk, cheeses, poultry, ice cream, spices, minced meat and environmental samples

Approvals



AOAC approved for “a variety of foods”

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



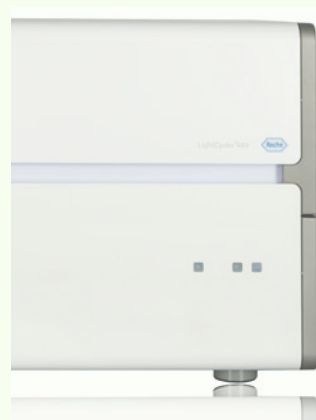
Rapid Enrichment
22 h



DNA Extraction
approx. 30 min



PCR Setup
approx. 10 min



Real-time PCR Run
60 - 100 min

Analysis Results in < 2,5 h

Listeria monocytogenes Detection Kits

- R 300 23 **foodproof®** *Listeria monocytogenes* Detection Kit (LC 1.x, 2.0)
- R 302 23 **foodproof®** *Listeria monocytogenes* Detection Kit (5' Nuclease)
- R 602 23 **foodproof®** *Listeria monocytogenes* 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 17 **foodproof®** StarPrep Two 8-Strip Kit - manual high-throughput 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

E.g. **foodproof®**
StarPrep Two 8-Strip Kit

- High-throughput extraction of *Listeria monocytogenes* DNA in less than 30 mins

Instrument Compatibility

- LightCycler 480, LC 96
- 5' Nuclease / TaqMan® cyclers (e.g. Dualo 32, PikoReal 24, AriaMx, CFX96, ABI 7500)

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