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 20%. 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 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 time to result with < 40 min of hands-on time. Rapid enrichment media reduces enrichment time to 22 h

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

**Convenient:** Less pipetting through LyoKits and high-throughput solutions

**Easy:** Convenient, complete solution including optimized DNA extraction procedures 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, in enriched food samples

**Best Specificity**

**100% Inclusivity**
- > 100 Listeria monocytogenes strains tested

**100% Exclusivity**
- 60 strains tested including closely related organisms and microorganisms of the same habitat

**Matrices**

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

**Approvals**

AOAC approved for “a variety of foods”
**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)
- **R 602 51** foodproof® *Listeria plus Listeria monocytogenes* Detection LyoKit (5’ Nuclease)

**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

**Workflow**

- **Enrichment** 22 h - 48 h*
- **DNA Extraction** approx. 30 min
- **PCR Setup** approx. 10 min
- **Real-time PCR Run** 60 - 100 min

*depending on the enrichment media

**Analysis Results in < 2.5 h**

**Instrument Compatibility**

- E.g.: LightCycler 480, LC 96, PikoReal 24, AriaMx, CFX96, ABI 7500, QuantStudio5

**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 a short time and with reduced hands-on steps

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