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”
**Workflow**

**Rapid Enrichment**
22 h

**DNA Extraction**
approx. 30 min

**PCR Setup**
approx. 10 min

**Real-time PCR Run**
60 - 100 min

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**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

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**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® cycler (e.g. Dualo 32, PikoReal 24, AriaMx, CFX96, ABI 7500)

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