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 the real-time PCR technology, which is well-established in the food industry as a highly sensitive and specific detection method.

**Fast:** 24-48 h to result with < 40 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:** 1 -10 cfu/25 g sample, including enrichment

**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

**Licensed:** Fully licensed technology
**Instrument Compatibility**

- **DNA Extraction** (ca. 30 min)
  
  foodproof® ShortPrep II Kit enables the extraction of *Listeria* DNA from food matrix enrichments

- **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)

- **Specific DNA Extraction Kits**
  
  S 400 02 foodproof® ShortPrep® II Kit
  
  S 400 05 foodproof® Sample Preparation Kit II
  
  S 400 08 foodproof® StarPrep Two Kit
  
  S 400 12 L foodproof® Magnetic Preparation Kit II

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**Workflow**

- **Start**
  
  Enrichment

- **30 min**
  
  DNA Extraction

- **10 min**
  
  PCR Set-up

- **60 min**
  
  PCR run

- **10 min**
  
  Analysis

**Total 110 min**

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**Listeria Genus Detection Kits**

- **DNA Extraction**
  
  (ca. 30 min)

  - foodproof® ShortPrep II Kit enables the extraction of *Listeria* DNA from food matrix enrichments

**Specific DNA Extraction Kits**

- **S 400 02** foodproof® ShortPrep® II Kit
- **S 400 05** foodproof® Sample Preparation Kit II
- **S 400 08** foodproof® StarPrep Two Kit
- **S 400 12 L** foodproof® Magnetic Preparation Kit II

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**Storage**

- at -15 °C to -25 °C

**96 Reactions** with a final volume of 20 or 25 µl