



**foodproof**<sup>®</sup>

## ***Listeria* Genus and *L. monocytogenes* Detection**

*Listeria monocytogenes* is known to cause listeriosis, a lethal food-borne infection with a lethality rate of up to 20%. Listeriosis is transmitted through contaminated food, such as dairy products made of unpasteurized milk, deli meat, cooked-, cured- and/or fermented meats and sausages, soft cheeses and cold smoked fishery products. Often, *Listeria monocytogenes* is found in samples that contain other *Listeria*. Therefore, the detection of *Listeria* species is not only used as an indicator for the presence of *Listeria monocytogenes* but also as a hygiene marker.

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.

The **foodproof *Listeria* plus *Listeria monocytogenes* Detection LyoKit** is based on real-time PCR technology. It simultaneously detects the food relevant *Listeria sensu stricto* clade which includes *L. innocua*, *L. seeligeri*, *L. welshimeri*, *L. ivanovii*, *L. marthii* as well as the pathogenic species *Listeria monocytogenes* in a single PCR reaction.

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

**Sensitive:** 1 - 10 cfu/25 g sample can be detected after enrichment.

**Fast:** ≤ 24 h time to results with < 40 min of hands-on time. Rapid media reduces enrichment time even further.

**Convenient:** Lyophilized kit enables detection of two parameters in one assay with few pipetting steps.

### **Best Specificity**

**100% Inclusivity**

> 100 *Listeria* strains of 7 *Listeria* species tested, including.

> 50 *Listeria monocytogenes* strains.

**100% Exclusivity**

> 75 strains tested, including 11 other *Listeria* species.

### **Matrices**

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

### **Approvals**



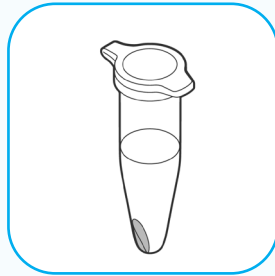
For details on the validated matrices, please refer to the respective certificate.

## Workflow



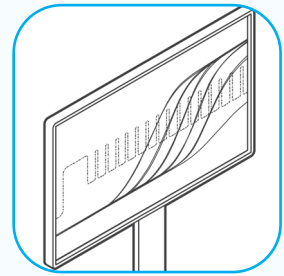
### Enrichment

Rapid Media 20 to 24 h



### DNA Extraction

Duration depending on protocol and number of samples



### Real-Time PCR

approx. 100 min

## DNA Extraction Kits

### Manual

**foodproof** StarPrep Two Kit (standard)  
KIT 2301 77

**foodproof** StarPrep Two 8-Strip Kit (high-throughput)  
KIT 2301 86

### Automated

**foodproof** Magnetic Preparation Kit II  
KIT 2301 81

## Real-Time PCR Kits

**foodproof** *Listeria* plus *Listeria monocytogenes* Detection LyoKit  
KIT 2301 29 (LP), KIT 2301 30 (RP)

**foodproof** *Listeria* Genus Detection LyoKit  
KIT 2300 88 (LP), KIT 2300 89 (RP)

**foodproof** *Listeria monocytogenes* Detection LyoKit  
KIT 2300 92 (LP), KIT 2300 93 (RP), KIT 2300 94 (DP)

**foodproof** *Listeria* Genus Detection Kit  
KIT 2300 47

**foodproof** *Listeria monocytogenes* Kit  
KIT 2300 48

## Tests

100

480

480

## LyoKits

### Fast & Convenient

Lyophilized, prefilled reaction mix reduces hands-on time and minimizes contamination risks.

### Easy Storage & Safe Transportation

Ships at room temperature, store at 2 °C to 8 °C.

## Tests

96

96

96

96

96

## Instrument Compatibility

### Different Profile (DP):

e.g., Dualo 32® R<sup>2</sup>

### Low Profile (LP):

e.g., LightCycler® 480, LightCycler® 96, AriaMx, Bio-Rad CFX96™, Applied Biosystems™ 7500 Fast, QuantStudio™

### Regular Profile (RP):

e.g., Mx3005P

Other cyclers on request.

## Hygiena®

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