



foodproof®

***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

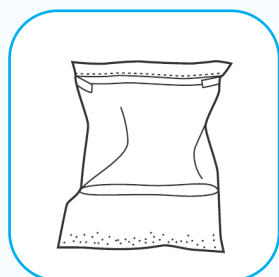
All relevant food matrices tested, including milk, cheeses, poultry, sausages, minced meat, seafood, ice cream, salads, spices and environmental samples.

Approvals



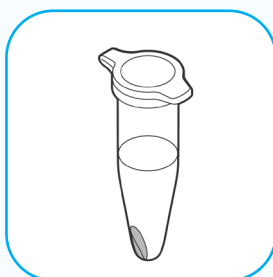
For details on the validated matrices, please refer to the respective certificate.

Workflow



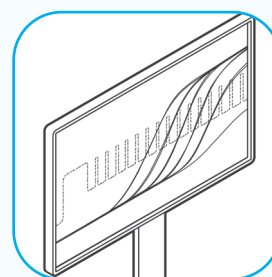
Enrichment

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

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.

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

96

96

96

96

96

Instrument Compatibility

Different Profile (DP):

e.g., Dualo 32® R²

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.

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