Sensitivity
Limit of Quantification: 10 genomic units
Limit of Detection: 3 genomic units

Matrices
Suitable for all relevant sample types, like clear or turbid water

Hydrolysis Probes

Legionella Quantification LyoKit

For safer food – BIOTECON Diagnostics – simply builds up trust!

Legionellosis is caused by Legionella pneumophila and related Legionella bacteria. The severity of legionellosis varies from mild febrile illness (Pontiac fever) to a potentially fatal form of pneumonia (Legionnaires’ disease). Most Legionella infections are caused by L. pneumophila serogroup 1, followed by other serogroups and non-pneumophila species. These include L. longbeachae, L. micdadei (Tatlockia micdadei), and L. bozemanii (Floribacter bozemanae). Water is the major reservoir for Legionella, which can also be found in artificial aquatic environments, such as cooling towers, water installations of hotels, ships and factories, or swimming pools. Testing for the presence of Legionella spp. is therefore implemented in many national standards worldwide.

Real-time PCR is a faster, easier and more precise alternative to cultural methods. The microproof® Legionella Quantification LyoKit detects Legionella spp., L. pneumophila and L. pneumophila serogroup 1 in one single test, and quantifies each of them individually.

Safe: Prevention of carry-over contamination by using Uracil-N-Glycosylase
Precise: Live/dead differentiation with Reagent D. Detection of VBNC cells. Results are displayed in genomic units / ml. Complies with ISO 12869:2012
Comprehensive: Packages of sample preparation & detection kits, real-time PCR instruments & diagnostic software

Fast: Time saving in comparison to classical microbiology: 4 h instead of 10 - 14 days
Easy: Convenient, complete solution, including DNA extraction, live/dead differentiation and quantitative real-time PCR analysis
Experienced: Manufacturer of fully licensed PCR-based rapid tests since 1998 with an ISO 17025 accredited service lab

Best Specificity
100% Inclusivity
- 43 species/119 strains successfully tested
- Full inclusivity for genus Legionella

100% Exclusivity
- 42 species tested
- Microorganisms of the same environmental habitat

Sensitivity
- Limit of Quantification: 10 genomic units
- Limit of Detection: 3 genomic units

Matrices
Suitable for all relevant sample types, like clear or turbid water
**Detection & Quantification**
- Legionella spp.,
- L. pneumophila and
- L. pneumophila serogroup 1
  in one single test
- Quantification of all 3 parameters individually

**Instrument Compatibility**
- 5’Nuclease / TaqMan® cycler, e.g. LightCycler 480, LC 96 AriaMx, Mx3005P, ABI 7500 Fast, PikoReal 24, CFX96

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**Workflow**

- **Sample Filtration**
  10 min

- **DNA Extraction***
  40 min

- **PCR Setup**
  10 min

- **Real-time PCR Run**
  170 min

* including live and dead differentiation

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**DNA Extraction Kit**
- S 400 08 foodproof® StarPrep Two Kit
- A 500 02 Reagent D (for live/dead differentiation)
- A 500 18 Rinse Buffer (for filtered samples)

**Legionella Quantification LyoKit**
- R 602 45 microproof® Legionella Quantification LyoKit

**Storage** at 2 °C to 8 °C
**96 Reactions** with a final volume of 25 µl