



microproof®

Legionella Quantification LyoKit

Legionellosis is caused by *Legionella pneumophila* and related *Legionella* bacterial species and serotypes. 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* (*Fluoribacter bozemaniae*). 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 required 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: Complies with ISO 12869:2012. Prevention of carry-over contamination using Uracil-N-Glycosylase.

Precise: Live/dead differentiation with Reagent D. Detection of VBNC cells. Results are displayed in genomic units / mL.

Fast: Time saving in comparison to classical microbiology: 4 h instead of 10 to 14 days.

Easy: Convenient, complete solution, including DNA extraction, live/dead differentiation and quantitative real-time PCR analysis.

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 per reaction.

Limit of Detection: 3 genomic units per reaction.

Detection & Quantification

Detection of *Legionella* spp., *L. pneumophila* and *L. pneumophila* serogroup 1 in one single test.

Quantification of all 3 parameters individually.

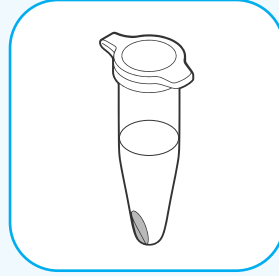
Matrices

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

Workflow

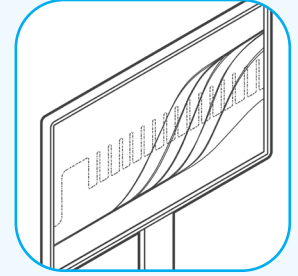


**Filtration or
Direct Sample**



DNA Extraction

Duration depending on protocol
and number of samples



Real-Time PCR

160 min

DNA Extraction Kits

Manual

foodproof StarPrep® Two Kit
KIT 2301 77

Reagent D (for live/dead differentiation)
KIT 2300 01

Rinse Buffer (for filtered samples)
KIT 2300 12

Tests

280 (42 ml)

100 (30 ml)

100 ml

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

microproof *Legionella* Quantification LyoKit
KIT 2301 19 (LP), KIT 2301 20 (RP)

Tests

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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