

A T C A T C G T A T C C A T C C C T A T C C A T C C C T
 T C A T C C C T A T C G C T T C C A T C T G C T T C A
 A T C T T C A T C C G T A T C T G C T T C C A T C T G C T
 C C A T T T C A T C C G T A T C
 G C T T C C A T C C C T A T C G C
 T C A T C C A T C C C T A T C T G C T T C C A T C T G C T

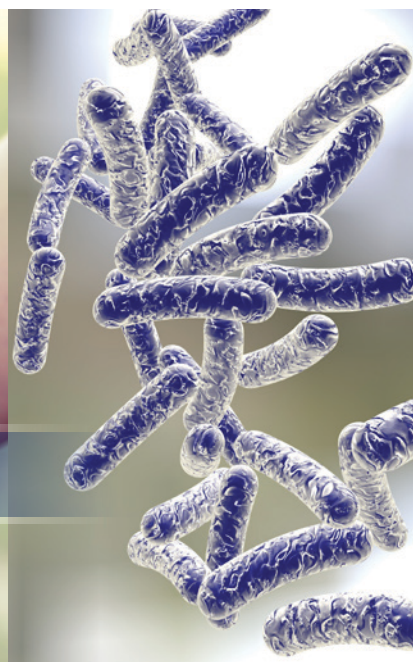


BIOTECON Diagnostics

microproof®

Legionella Quantification LyoKit

Hydrolysis Probes



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* (*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 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

A T C A T C G T A T C C A T C C C T A T C C A T C C C T
 T C A T C C C T A T C G C T T C C A T C T G C T T C A
 A T C T T C A T C C G T A T C T G C T T C C A T C T G C T
 C C A T T T C A T C C G T A T C
 G C T T C C A T C C C T A T C G C
 T C A T C C A T C C C T A T C T G C T T C C A T C T G C T



BIOTECON Diagnostics

Workflow



Sample Filtration
10 min



DNA Extraction*
40 min



PCR Setup
10 min



Real-time PCR Run
170 min

Analysis Results in 4 h

* including live and dead differentiation

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

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

BIOTECON Diagnostics GmbH

Hermannswerder 17
14473 Potsdam
Germany

Phone: +49 (0)331-2300-200
Fax: +49 (0)331-2300-299

bcd@bc-diagnostics.com
www.bc-diagnostics.com

microproof® is a registered trademark of BIOTECON Diagnostics.
The above mentioned real-time PCR instruments are registered trademarks of their respective holders.