



Legionella Water testing

For the rapid detection and quantification
of *Legionella* spp. and *L. pneumophila* in water samples

Legionella - Water testing

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DI-Check Legionella pneumophila
Certificate reference No. DTV 41/01-12/19, with end of validity 04-Dec-2023
WATER ANALYSIS METHODS
The method is validated for the detection and quantification of *L. pneumophila*
in all types of water samples, by comparison to the reference method NF T90-471 (2015)
and ISO/TS 12869 (2019) and according to the AFNOR certification's validation protocol
for the detection and enumeration of *L. pneumophila* by PCR.
<https://nf-validation.afnor.org/>

Legionellae are bacteria of public health interest responsible for a severe form of pneumonia caused by colonization of human-made water systems and subsequent aerosolization and inhalation of *Legionella* bacteria.

Legionella outbreaks are commonly associated with buildings or structures that have complex water systems, including evaporative cooling systems, potable water, spas, industrial equipment and decorative fountains. Hospitals and care facilities are potential sources of *Legionella* infections that can affect patients.

Environmental surveillance and monitoring of *Legionella* spp. through routine control of water supply systems are crucial for risk assessment and the prevention of disease.

Diatheva provides a complete solution based on real-time PCR technology for *Legionella* control in water samples, developed to meet the needs for rapid *Legionella* detection and quantification.

The DI-Check Legionella pneumophila method is AFNOR validated on multiple PCR instruments: Applied Biosystems™ QuantStudio 96-well (Thermo Fisher Scientific), CFX96 Touch™ Real-Time PCR Detection System (Biorad), CFX96 Touch™ Deepwell Detection System (Biorad) and Rotor-Gene Q (Qiagen).

Using the DI-Check Analysis Software for *L. pneumophila*, the interpretation of results will be automatically performed.

Field of application

- Detection of *Legionella* spp. and/or *L. pneumophila* in water samples
- Quantification of *Legionella* spp. and/or *L. pneumophila* in water samples
- Rapid *Legionella* outbreaks investigation



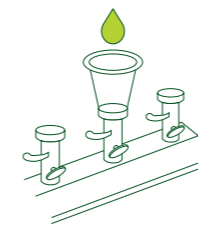
Benefits:

- Speed** Less than 4 h from sample to result
- High performance** Validated and tested on hot sanitary water, water from spas and cooling towers
- Reliability** Standards connected to the Reference Material
- Maximum specificity** 100% tested according to ISO/TS 12869
- Convenience** Complete solution including sample preparation and real-time PCR analysis
- Flexibility** Possibility to detect and quantify *Legionella* spp. and *L. pneumophila* simultaneously
- Compatibility** Flexible open system compatible with the major real-time PCR thermal cyclers available on the market

Complete and tailored solutions for entry into PCR technology: laboratory equipment, PCR machine and training

Workflow

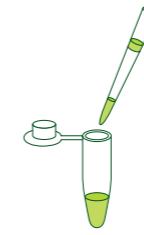
1. Filtration



10 min

Concentrate bacteria by filtering water sample

2. DNA extraction



60 min

Rapid DNA isolation and purification using the DNApure Water Isolation kit

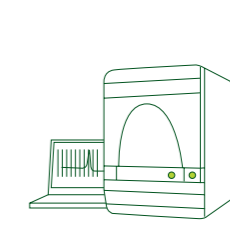
3. PCR set-up



10 min

Add sample DNA and controls to PCR tubes containing amplification reagents

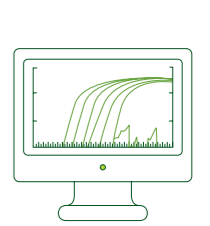
4. Real-time PCR



100 min

PCR amplification of *Legionella* spp./ *L. pneumophila* and Internal control

5. Results analysis



10 min

Total analysis time: less than 4 hours



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Technical specification

	Quantitative assay	Qualitative assay
Limit of detection	5 GU/PCR well	5 GU/PCR well
Limit of quantification	25 GU/PCR well	na
Quantification range	25 - 25 000 GU/PCR well	na
Specificity	Wide list of bacterial species tested for inclusivity and exclusivity	
Standard DNA	Standard curve connected to Reference Material	
Internal Amplification Control in each sample	Detects the presence of inhibitors in the sample and checks the accuracy of negative results	
Thermal cycler compatibility	Require qPCR cycler with filter sets for FAM™ and VIC/HEX/JOE dyes	

Ordering information

Code	Product	Description	Size
MBK0080	DNApure Water Isolation kit (AFNOR)	DNA extraction kit	100 extractions
MBK0058	DI-Check Legionella spp. kit	real-time PCR kit	100 tests
MBK0081	DI-Check <i>L. pneumophila</i> kit (AFNOR)	real-time PCR kit	100 tests

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