



DI-Check Legionella pneumophila Kit



Legionellosis is an infection caused by Legionella bacteria found in water systems, such as cooling towers, fountains, and misting apparatus, particularly in public buildings and health establishments. The bacteria can cause severe acute pneumonia (Legionnaires' disease) or the milder Pontiac fever. Although Legionella pneumophila accounts for approximately 90% of clinical cases, regular control of all Legionella species in water supply systems is vital for effective disease prevention, as the presence of any species is an indicator of environmental risk. One of the most sensitive and specific methods developed for environmental Legionella testing is Real-Time PCR. For comprehensive environmental monitoring, the DI-Check Legionella spp. Kit provides a reliable molecular solution for the detection and quantification of all *Legionella* species in water samples.

The kit is validated in combination with the DNAPure Water Isolation Kit (MBK080) and can be used also in combination with FDD - DI-Check Free DNA Degradation Kit (FDD-MBK0080).

Product highlights

VALIDATED

Validated according to according to ISO/TS 12869 standard

READY TO USE AND RESISTANT TO INHIBITORS PCR MASTERMIX

Hot-start PCR mix resistant to common inhibitors

RAPID TournAROUND TIME AND HIGH SENSITIVITY

Reduce time to results as well as the number of culture tests

Intended use



Detection and quantification of Legionella spp. DNA in environmental water samples



Monitoring of Legionella contamination in sanitary and industrial water systems



Support for quality control and risk management programs according to ISO/TS 12869

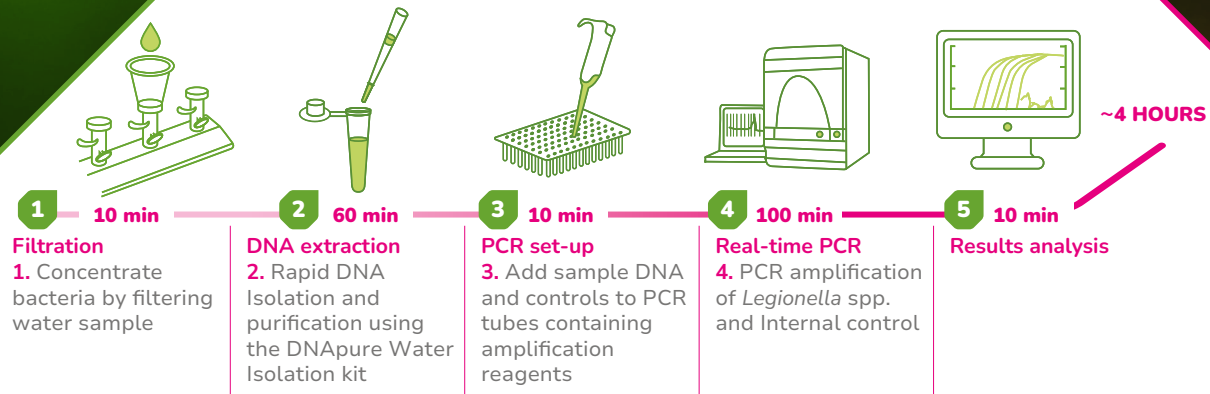


Outbreak investigation for rapid results during a crisis



Real time monitoring of water systems with results in 4 hours

Workflow



Total analysis time: ~4 hours

Product Features

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 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

Technical specifications

TEST METHOD

Real-Time PCR (dual-labelled probe)

FORMAT

100 reactions

STORAGE TEMPERATURE

-20°C

SPECIES SAMPLE

Legionella spp.

SAMPLE TYPE

Environmental water samples

ASSAY TURNAROUND TIME

<4 hours

INTERNAL AMPLIFICATION CONTROL IN EACH SAMPLE

Detects the presence of inhibitors in the sample and checks the accuracy of negative results

Analytical Characteristics

QUANTITATIVE ASSAY

QUALITATIVE ASSAY

LIMIT OF DETECTION

5 GU/PCR well

LIMIT OF QUANTIFICATION

25 GU/PCR well

QUANTIFICATION RANGE

25 – 25 000 GU/PCR well

SPECIFICITY

Wide list of bacterial species tested for inclusivity and exclusivity according to ISO 12869

STANDARD DNA

Standard curve connected to Reference Material

ORDERING INFORMATION

CODE

SIZE

MBK0081

100 REACTIONS

For more information or to place an order, contact us at info@diatheva.com