

# VIASURE

## *Legionella pneumophila* Real Time PCR Detection Kit

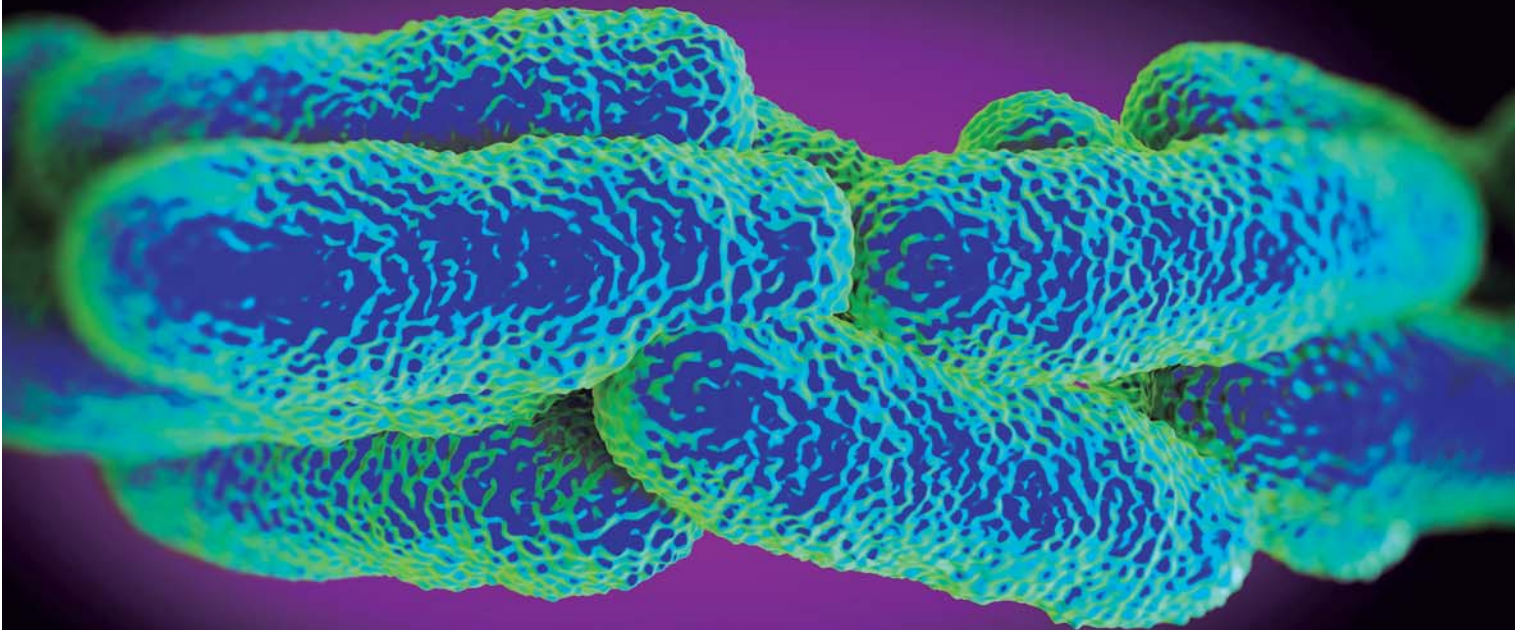
### Pathogen and product description

Legionellae are ubiquitous in environmental water sources and may cause sporadic as well as epidemic cases, which can be nosocomial, community-acquired and travel-associated. Aerosol-generating systems such as faucets, showerheads, whirlpools, cooling towers and nebulizers aid in the transmission of *Legionella* from water to air. Afterwards, human inhalation or aspiration of contaminated water droplets into the lower respiratory tract leads to *Legionella* infections and disease outbreaks.

*Legionella pneumophila* accounts for up to 90% of legionellosis cases, which in-

cludes both legionnaires' disease (LD) and Pontiac fever. Symptoms include fever, non-productive cough, myalgias, malaise and diarrhea, among others. Diagnostic delay may also result in increased mortality rates among the elderly and patients with severe underlying disease.

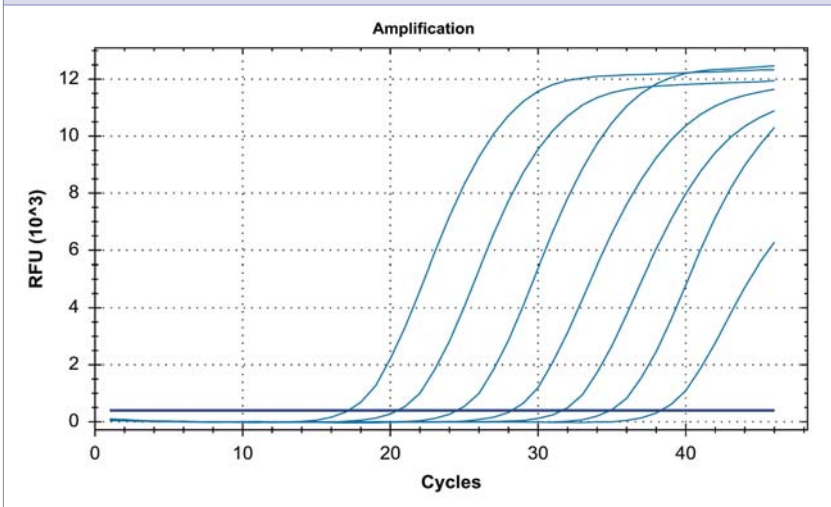
VIASURE *Legionella pneumophila* Real Time PCR Detection Kit is designed for the diagnosis of *Legionella pneumophila* in clinical samples. After DNA isolation, the identification of *Legionella pneumophila* is performed by the amplification of a conserved region of the *mip* gene and a fluorescent-labeled probe.





### Analytical sensitivity

**VIASURE** *Legionella pneumophila* Real Time PCR Detection Kit has a detection limit of  $\geq 10$  DNA copies per reaction



Dilution series of *Legionella pneumophila* ( $10^7$ - $10^1$  copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System.

### Components

Reagent/Material	Description	Quantity
<i>Legionella pneumophila</i> 8-well strips	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	6/12 x 8-well strip
<i>Legionella pneumophila</i> 96-well plate	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	1 plate
Rehydration Buffer	Solution to reconstitute the stabilized product	1 vial x 1,8 mL
<i>Legionella pneumophila</i> Positive Control	Non-infectious synthetic lyophilized DNA	1 vial
Negative Control	Non template control	1 vial x 1 mL
Water RNase/DNase free	Water RNase/DNase free	1 vial x 1 mL
Tear-off 8-cap strips	Optical caps for sealing wells during thermal cycling	6/12 x 8 cap strip
Shell Frame Grid	Shell Frame Grid	1 or 2

### Kit References

Reference	Description
VS-LGN106L	Viasure <i>Legionella pneumophila</i> Real Time PCR Detection Kit 6 x 8-well strips, low profile
VS-LGN106H	Viasure <i>Legionella pneumophila</i> Real Time PCR Detection Kit 6 x 8-well strips, high profile
VS-LGN112L	Viasure <i>Legionella pneumophila</i> Real Time PCR Detection Kit 12 x 8-well strips, low profile
VS-LGN112H	Viasure <i>Legionella pneumophila</i> Real Time PCR Detection Kit 12 x 8-well strips, high profile
VS-LGN113L	Viasure <i>Legionella pneumophila</i> Real Time PCR Detection Kit 96-well plate, low profile
VS-LGN113H	Viasure <i>Legionella pneumophila</i> Real Time PCR Detection Kit 96-well plate, high profile

### Work Flow

One-step rehydration of wells and add your extracted DNA



**STEP 1**  
Separate the number of required strips you need



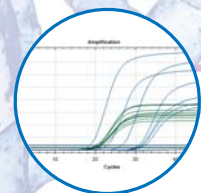
**STEP 2**  
Add 15  $\mu$ l of rehydration buffer into each well



**STEP 3**  
Add 5  $\mu$ l of DNA sample / positive control / negative control



**STEP 4**  
Load the strips into the thermocycler and run the specified protocol



**STEP 5**  
Interpretate results



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