

C. pneumoniae, *M. pneumoniae* & *L. pneumophila*

- ▶▶ **Community-acquired pneumonia (CAP) is a major respiratory disease with a high prevalence in the general population, clinical heterogeneity and variable severity.** Pneumonia usually causes symptoms for 3–4 weeks, and daily activities may be impaired for a further 3 weeks on average. *Chlamydophila pneumoniae*, *Mycoplasma pneumoniae* and *Legionella pneumophila*, are some of the causes of community-acquired pneumonia.
- ▶▶ *Legionella pneumophila*, the bacterium responsible for Legionnaires' disease, was identified in 1976 after a large outbreak at a hotel in Philadelphia, USA. The most common form of transmission of *Legionella* is inhalation of contaminated aerosols produced in conjunction with water sprays. Infection can also occur by aspiration of contaminated water or ice, particularly in susceptible hospital patients. Legionnaires' disease has an incubation period of 2 to 10 days. Untreated Legionnaires' disease usually worsens during the first week. Combining urine antigen testing with culture or molecular assays currently provides the best algorithm for diagnosis of *Legionella* disease.
- ▶▶ *Chlamydophila pneumoniae* cause illness by damaging the lining of the respiratory tract (throat, windpipe, and lungs). *C. pneumoniae* respiratory infection occurs worldwide and in all age groups. The seroprevalence to *Chlamydophila pneumoniae* is low in infants but it can be higher than 50% in adults. Seroepidemiological studies show that 50 to 75% of adults have antibodies against *Chlamydophila pneumoniae*. Most people are infected and reinfected throughout their life. However, not everyone who is exposed to *Chlamydophila pneumoniae* develops pneumonia. *Chlamydophila pneumoniae* has been associated with the establishment of atherosclerotic disease and heart attacks.
- ▶▶ *Mycoplasma pneumoniae* infection is a mild illness that is most common in young adults and school-aged children. Outbreaks of *Mycoplasma pneumoniae* occur mostly in crowded environments, when small droplets of water that contain the bacteria get into the air by coughing and sneezing while in close contact with others. The incubation period is usually between 1 to 4 weeks.



"Ready & Easy-to-use" kits.
Lyophilised product



Transport and storage at **room temperature**.
Shelf-life: 24 months



Validated according to **ISO 13485**
and **CE marked**



C. pneumoniae, *M. pneumoniae* & *L. pneumophila*

VIASURE *C. pneumoniae*, *M. pneumoniae* & *L. pneumophila* Real Time PCR Detection Kit is designed for the specific identification and differentiation of human *Chlamydophila pneumoniae*, *Mycoplasma pneumoniae* and *Legionella pneumophila* in respiratory samples from patients with signs and symptoms of respiratory infection.

This test is intended for use as an aid in the diagnosis of *Chlamydophila pneumoniae*, *Mycoplasma pneumoniae* and/or *Legionella pneumophila* in combination with clinical and epidemiological risk factors.

DNA is extracted from clinical specimens, multiplied using Real Time amplification and detected using specific primers and a fluorescent reporter dye probe for *Chlamydophila pneumoniae*, *Mycoplasma pneumoniae* and/or *Legionella pneumophila*.

► Analytical sensitivity

VIASURE *C. pneumoniae*, *M. pneumoniae* & *L. pneumophila* Real Time PCR Detection Kit has a detection limit of ≥ 10 DNA copies per reaction for *C. pneumoniae*, *M. pneumoniae* and *L. pneumophila* (Figures 1, 2 and 3).

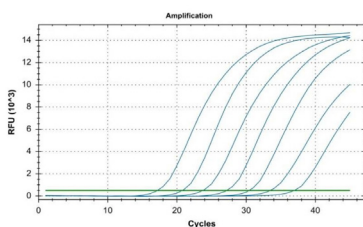


Figure 1.
Dilution series of *Legionella pneumophila* (10^7 - 10^1 copies/rxn) template run on the Bio-Rad CFX96™ Real-Time PCR Detection System (FAM channel).

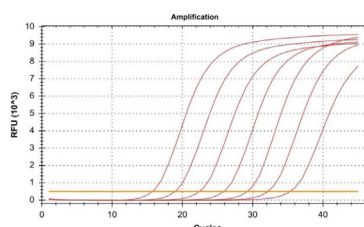


Figure 2.
Dilution series of *Chlamydophila pneumoniae* (10^7 - 10^1 copies/rxn) template run on the Bio-Rad CFX96™ Real-Time PCR Detection System (ROX channel).

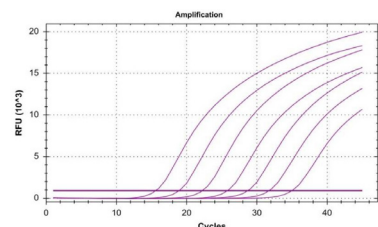


Figure 3.
Dilution series of *Mycoplasma pneumoniae* (10^7 - 10^1 copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System (Cy5 channel).

► References -VIASURE *C. pneumoniae*, *M. pneumoniae* & *L. pneumophila* Real Time PCR Detection Kit-

6 x 8-well strips, low profile _____ VS-CML106L
12 x 8-well strips, low profile _____ VS-CML112L
96-well plate, low profile _____ VS-CML113L
9 x 4-well strips, Rotor-Gene® _____ VS-CML136

6 x 8-well strips, high profile _____ VS-CML106H
12 x 8-well strips, high profile _____ VS-CML112H
96-well plate, high profile _____ VS-CML113H
18 x 4-well strips, Rotor-Gene® _____ VS-CML172

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For more information and use procedure,
read the instructions for use included in this product.