

# BactoReal® Kit *Mycoplasma pneumoniae*



## BactoReal® Kit *Mycoplasma pneumoniae*

Order no.	Reactions	Pathogen	Internal positive control
DHUB01253	50	FAM channel	Cy5 channel

### Kit contents:

- Detection assay for *Mycoplasma pneumoniae*
- Detection assay + target for internal DNA positive control (control of PCR amplification and DNA extraction)
- DNA reaction mix
- Nuclease-free water
- Positive control for *Mycoplasma pneumoniae*



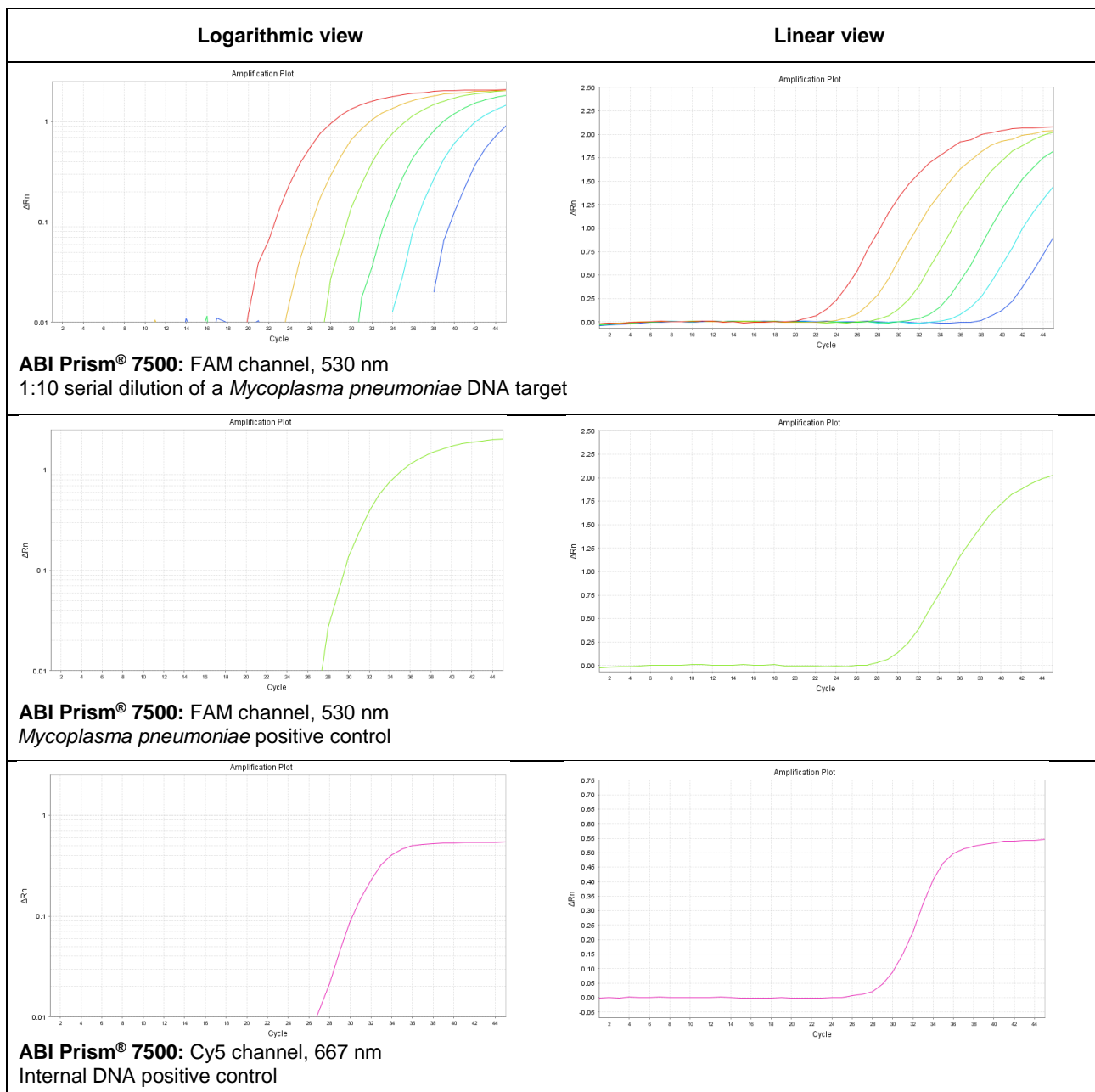
**Background:** *Mycoplasma pneumoniae* is a very small bacterium lacking a cell wall. This bacterium has a global distribution and is an obligate pathogen and highly infectious. Transmission occurs through close contact with contaminated respiratory droplets. *Mycoplasma pneumoniae* infects the mucosal membrane of the respiratory tract and is a common cause of both upper and lower respiratory infections, including tracheobronchitis and primary atypical pneumonia (community-acquired pneumonia, CAP), but it can also cause pharyngitis, meningitis and otitis media.

**Description:** BactoReal® Kit *Mycoplasma pneumoniae* is an *in vitro* diagnostic test detecting DNA of the 16S rRNA gene of *M. pneumoniae* using real-time PCR. This test allows the rapid and sensitive detection of DNA of *M. pneumoniae* from samples purified from the respiratory tract (e.g. with the QIAamp DNA Mini Kit, Qiagen).

*Mycoplasma pneumoniae* DNA is detected in FAM channel. The internal DNA positive control (DNA IPC) is detected in Cy5 channel and is used as DNA extraction as well as PCR inhibition control. The DNA IPC target is extracted with the sample.

**PCR-platforms:** This kit has been validated with Applied Biosystems® 7500 Fast Real-time PCR System (Thermo Fisher Scientific) and tested with LightCycler® 480 Instrument II (Roche) and Mx3005P® QPCR System (Agilent). It is compatible with real-time PCR instruments detecting and differentiating fluorescence in FAM and Cy5 channel.

**Specificity and sensitivity:** BactoReal® Kit *Mycoplasma pneumoniae* detects at least 10 target copies/reaction. The limit of detection (LoD95 = smallest number of target DNA copies which can be detected in 95% of cases) is 39 copies/reaction. Diagnostic evaluation was performed with bacterial isolates and with clinical samples. This kit is specific for *Mycoplasma pneumoniae*.



**Figure 1** Performance of BactoReal® Kit *Mycoplasma pneumoniae*

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