

BactoReal® Kit *Chlamydomphila pneumoniae*



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Order no.	Reactions	Pathogen	Internal positive control
DHUB00953	50	FAM channel	Cy5 channel

For Research Use Only. Not for use in diagnostic procedures.

Kit content:

- Detection assay for *Chlamydomphila 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 *Chlamydomphila pneumoniae*



Background: *Chlamydomphila pneumoniae* (formerly *Chlamydia pneumoniae*) is a gram-negative obligate intracellular bacterium and has a global distribution. It was formerly thought to be a specific human pathogen, but in the meantime it has also been found in horses, koala, amphibians, reptiles and other animals. In humans, it commonly causes pharyngitis, bronchitis and atypical pneumonia (community-acquired pneumonia, CAP).

Description: BactoReal® Kit *Chlamydomphila pneumoniae* is a real-time PCR test detecting DNA of the ompA gene of *C. pneumoniae*. This test allows the rapid and sensitive detection of DNA of *C. pneumoniae* from samples purified from the respiratory tract (e.g. with the QIAamp DNA Mini Kit, Qiagen).

Chlamydomphila 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 *Chlamydomphila pneumoniae* detects at least 10 target copies/reaction of *C. pneumoniae*. The limit of detection (LoD95 = smallest number of target DNA copies which can be detected in 95% of cases) is 42 copies/reaction. Evaluation was performed with bacterial isolates and with clinical samples. This kit is specific for *Chlamydomphila pneumoniae*.

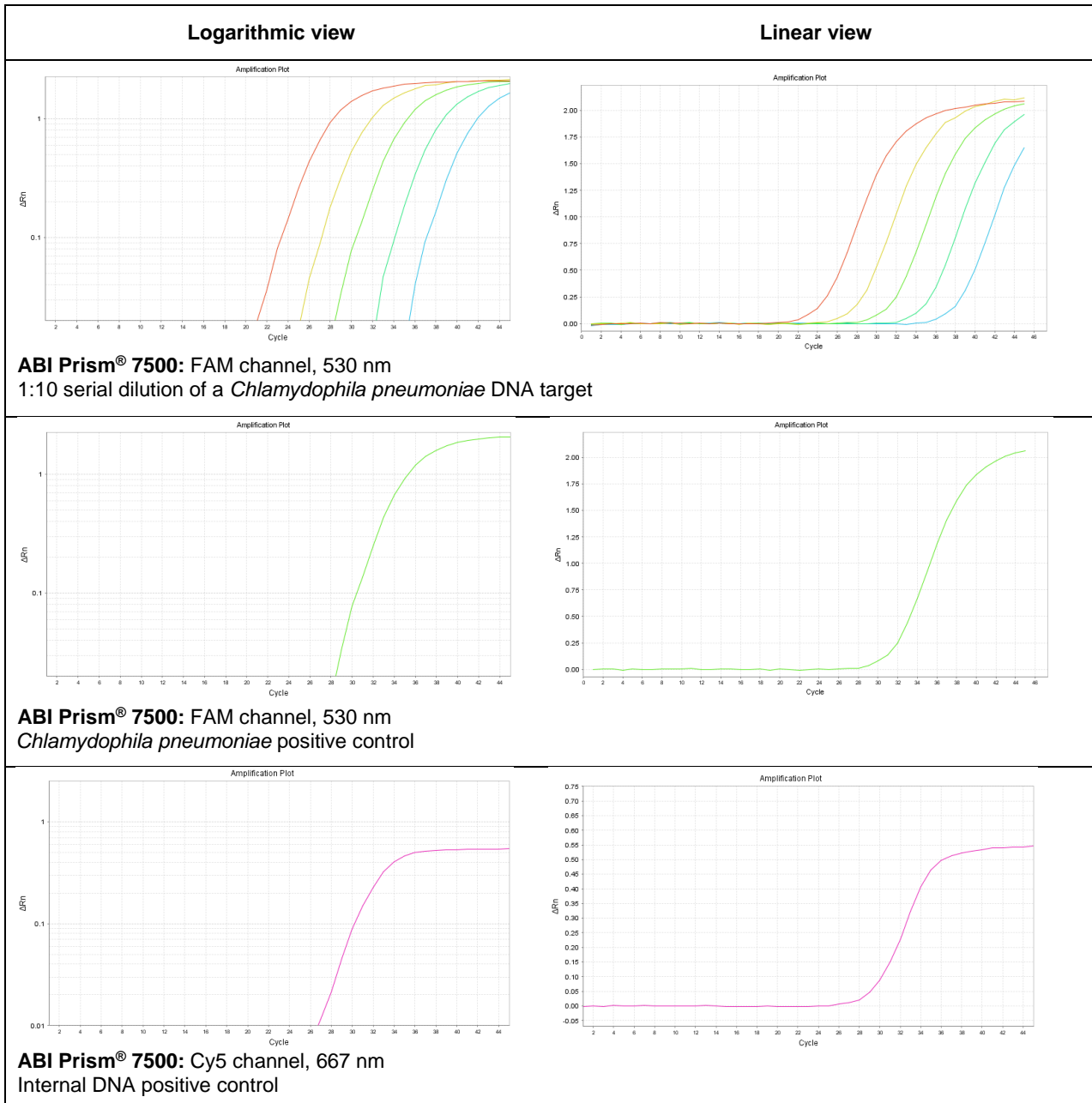


Figure 1 Performance of BactoReal® Kit *Chlamydomphila pneumoniae*

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