

BactoReal® Kit *Chlamydomphila psittaci/abortus*



BactoReal® Kit *Chlamydomphila psittaci/abortus*

Order no.	Reactions	Pathogen	Internal positive control
DHUB03053	50	FAM channel	Cy5 channel

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

Kit content:

- Detection assay for *Chlamydomphila psittaci* + *C. abortus*
- 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 psittaci*



Background: *Chlamydomphila psittaci* (previously classified as *Chlamydia psittaci*) is an intracellular bacterium that may cause endemic avian chlamydiosis in feral birds and domesticated poultry, epizootic outbreaks in mammals such as cattle, pigs, sheep and horses, and respiratory psittacosis in humans (also known as parrot fever and ornithosis). It is transmitted by inhalation, contact or ingestion among birds and to mammals. Psittacosis in birds and in humans often starts with flu-like symptoms and becomes a life-threatening pneumonia. *Chlamydomphila psittaci* is present in feces, nasal secretions, and feathers of infected birds.

Chlamydomphila abortus (previously classified as *Chlamydia psittaci* serotype 1) is one of the major infectious causes of abortion in sheep, cattle and goats worldwide. Infection has been associated with abortion and other clinical symptoms also in humans.

Description: BactoReal® Kit *Chlamydomphila psittaci/abortus* is a real-time PCR test detecting DNA of the omp1 gene of *Chlamydomphila psittaci* and *Chlamydomphila abortus*. It allows the rapid and sensitive detection of *C. psittaci* and *C. abortus* from DNA samples purified from whole blood, sputum, pleural fluid, biopsies or swabs (e.g. with QIAamp DNA Mini Kit). *C. psittaci* or *C. abortus* 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 psittaci/abortus* detects at least 5 target copies/reaction. Specificity was tested on different bacterial isolates (*B. pertussis*, *C. pneumoniae*, *L. pneumophila*, *M. hyopneumoniae*, *M. hyorhinis*, and *M. pneumoniae*). No cross-reaction was observed. The test may cross-react with *Chlamydomphila felis* and *Chlamydomphila caviae*, however these species are mainly restricted to animal hosts.

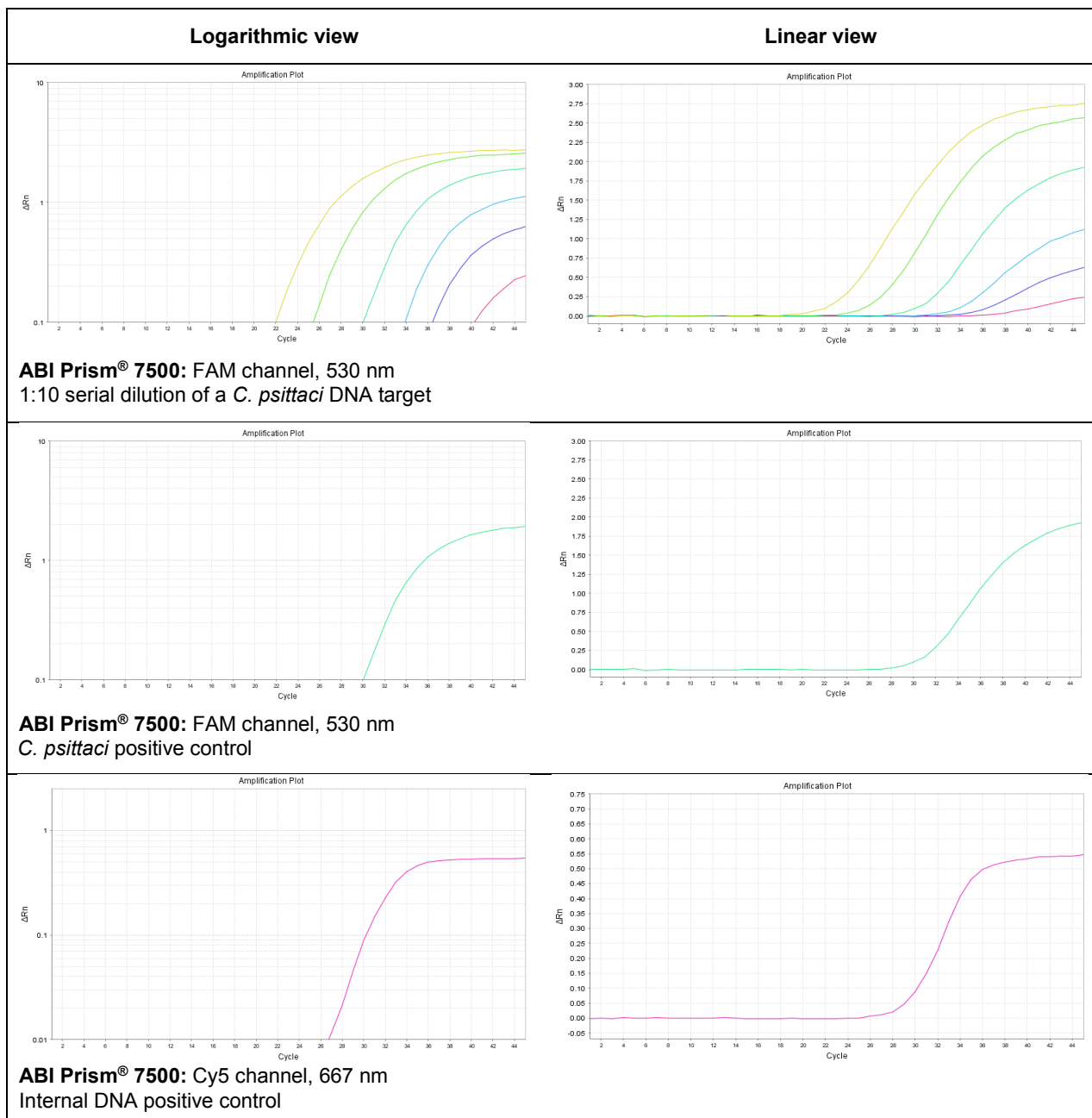


Figure 1 Performance of BactoReal® Kit *Chlamydomphila psittaci/abortus*

For further information on our products please visit our homepage (www.ingenetix.com)