

## BactoReal® Kit *Bordetella bronchiseptica*



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Order no.	Reactions	Pathogen	Internal positive control
DHUB02453	50	FAM channel	Cy5 channel

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

#### Kit contents:

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

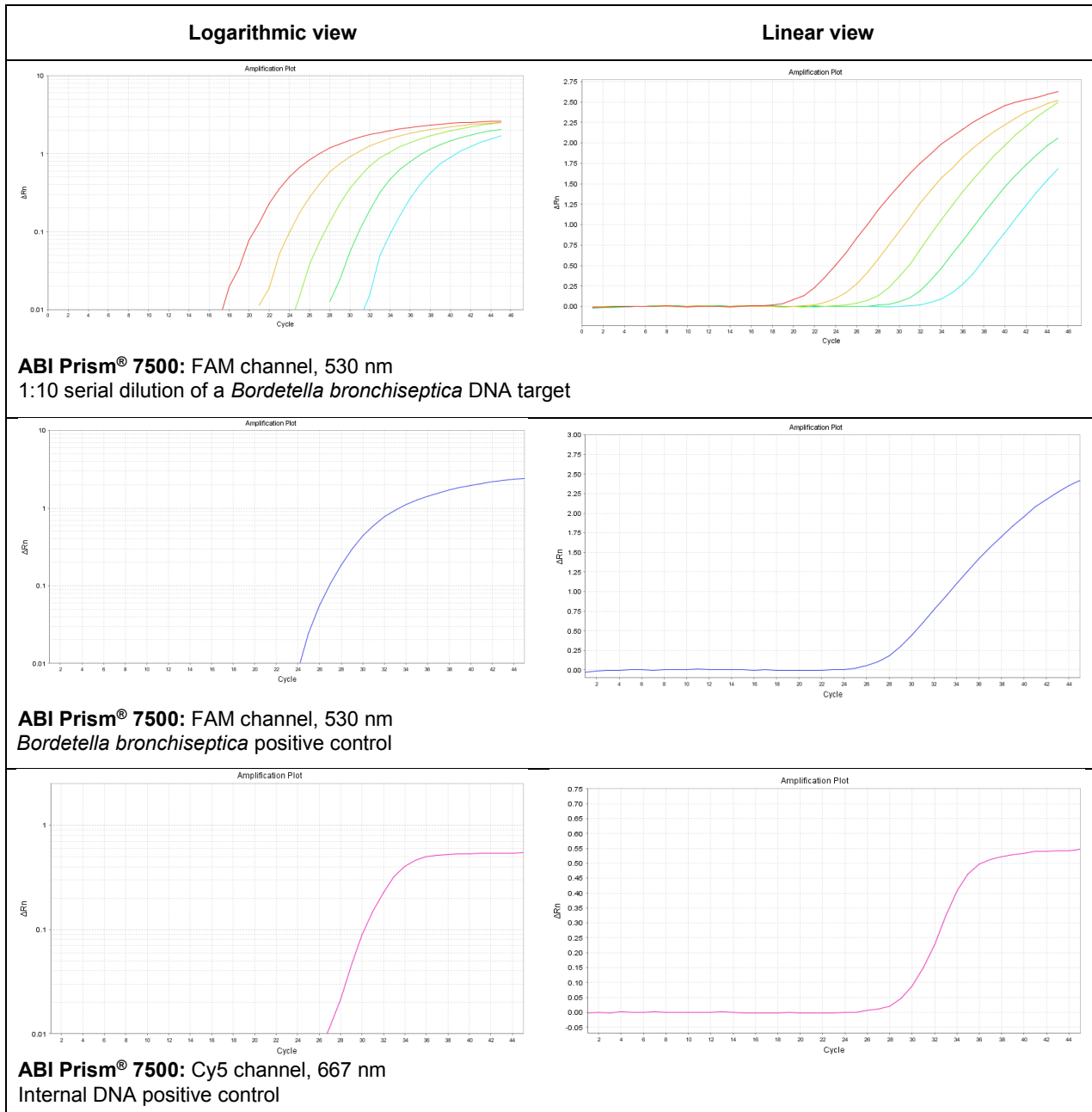


**Background:** *Bordetella bronchiseptica* is a gram-negative bacterium found as a normal inhabitant of the respiratory tract in a variety of animals such as dogs, pigs, some rodents, as well as humans. While it likely causes pulmonary infections in animals, it rarely provokes human disease. However, in immunocompromised humans (HIV-infection, organ transplantation), it may cause severe cases of pneumonia which require antibiotic treatment.

**Description:** BactoReal® Kit *Bordetella bronchiseptica* is a real-time PCR test detecting DNA of the *bfrA* gene of *Bordetella bronchiseptica*. It allows the rapid and sensitive detection of *Bordetella bronchiseptica* from DNA samples purified from the respiratory tract (e.g. with QIAamp DNA Mini Kit). *Bordetella bronchiseptica* 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 *Bordetella bronchiseptica* detects at least 1 target copies/reaction. The limit of detection (LoD95 = smallest number of copies of target DNA which can be detected in 95% of cases) is 16 target copies/reaction. Specificity was tested on different bacterial isolates (*Bordetella holmesii*, *Bordetella parapertussis*, *Bordetella pertussis*, *Escherichia coli*, *Mycoplasma gallisepticum*, *Mycoplasma hyopneumoniae* and *Mycoplasma synoviae*). No cross reactions were observed.



**Figure 1** Performance of BactoReal® Kit *Bordetella bronchiseptica*

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