

BactoReal® Kit *Bartonella* spp.



BactoReal® Kit *Bartonella* spp.

Order no.	Reactions	Pathogen	Internal positive control
DHUB03953	50	FAM channel	Cy5 channel

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

Kit content:

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



Background: *Bartonella* species are gram-negative, fastidious bacteria. In addition to dogs and cats, numerous domestic and wild animals, including bovine, canine, and rodent species as well as humans can serve as a reservoir host for various *Bartonella* species. Cats may harbor *B. henselae*, *B. clarridgeiae* and rarely other *Bartonella* species. Dogs may carry *Bartonella vinsonii* subsp. *berkhoffii*, *Bartonella henselae* and others. Humans can be a reservoir or an incidental host for *B. bacilliformis*, *B. clarridgeiae*, *B. elizabethae*, *B. grahamii*, *B. henselae*, *B. koehlerae*, *B. quintana*, *B. rochalimae*, *B. vinsonii* and *B. washoensis*. *Bartonella bacilliformis* causes Carrion's disease (Oroya fever and Verruga peruana). *Bartonella henselae*, which frequently causes chronic bacteremia in cats, is the most common etiologic agent of cat scratch disease. It can also cause bacillary angiomatosis, peliosis hepatitis, and sometimes endocarditis in immunocompromised human patients. *Bartonella clarridgeiae* can cause chronic bacteremia in cats and has been associated with cat scratch disease in humans. *Bartonella quintana* is the etiologic agent of trench fever and has also been associated with bacteremia, endocarditis, and bacillary angiomatosis. The other *Bartonella* species infecting humans have mainly been implicated in endocarditis and neuroretinitis.

Description: BactoReal® Kit *Bartonella* spp. is a real-time PCR test detecting DNA of the *gltA* gene of *B. clarridgeiae*, *B. elizabethae*, *B. grahamii*, *B. henselae*, *B. koehlerae*, *B. quintana*, *B. volans* and *B. washoensis*. It allows the rapid and sensitive detection of *Bartonella* from DNA samples purified from blood, tissue, joint fluid, cerebrospinal fluid, pericardial effusions, lymph node aspirate and formalin-fixed paraffin-embedded tissues (e.g. with QIAamp DNA Mini Kit). *Bartonella* 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 *Bartonella* spp. detects at least 10 target copies/reaction of *B. henselae*. This kit is specific for *B. clarridgeiae*, *B. elizabethae*, *B. grahamii*, *B. henselae*, *B. koehlerae*, *B. quintana*, *B. volans* and *B. washoensis*. *Bartonella rochalimae*, *B. vinsonii* and *B. bovis* are detected with very low sensitivity. *Bartonella bacilliformis* is not detected.

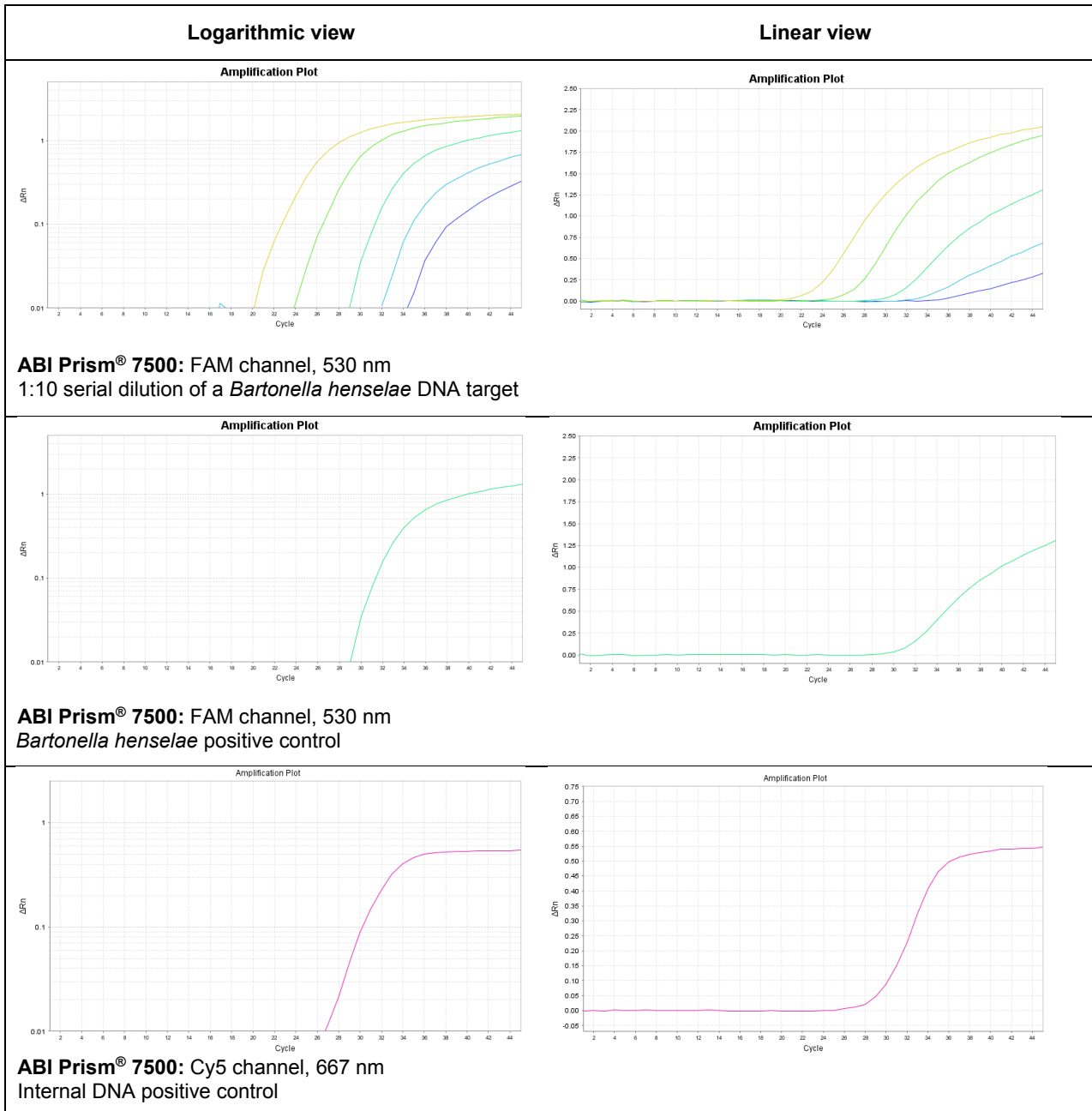


Figure 1 Performance of BactoReal® Kit *Bartonella* spp.

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