

BactoReal® Kit Bartonella spp.



For veterinary use only

BactoReal [®] Kit <i>Bartonella</i> spp.			
Order no.	Reactions	Pathogen	Internal positive control
DVEB03913	100	FAM channel	Cy5 channel
DVEB03953	50	FAM channel	Cy5 channel
DVEB03911	100	FAM channel	VIC/HEX channel
DVEB03951	50	FAM channel	VIC/HEX channel

Kit content:

- Detection assay for Bartonella spp.
- Detection assay for internal positive control (control of amplification)
- DNA reaction mix (contains uracil-N glycosylase, UNG)
- Positive control for Bartonella henselae
- Water



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 based on the amplification and detection of the gltA gene of *B. clarridgeiae, B. elizabethae, B. grahamii, B. henselae, B. koehlerae, B. quintana, B. volans* and *B. washoensis* using real-time PCR (detection in FAM channel, 530 nm). 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).

PCR-platforms: BactoReal[®] Kit *Bartonella* spp. is developed and validated for the ABI PRISM[®] 7500 instrument (Life Technologies), LightCycler[®] 480 (Roche) and Mx3005P[®] QPCR System (Agilent), but is also suitable for other real-time PCR instruments.

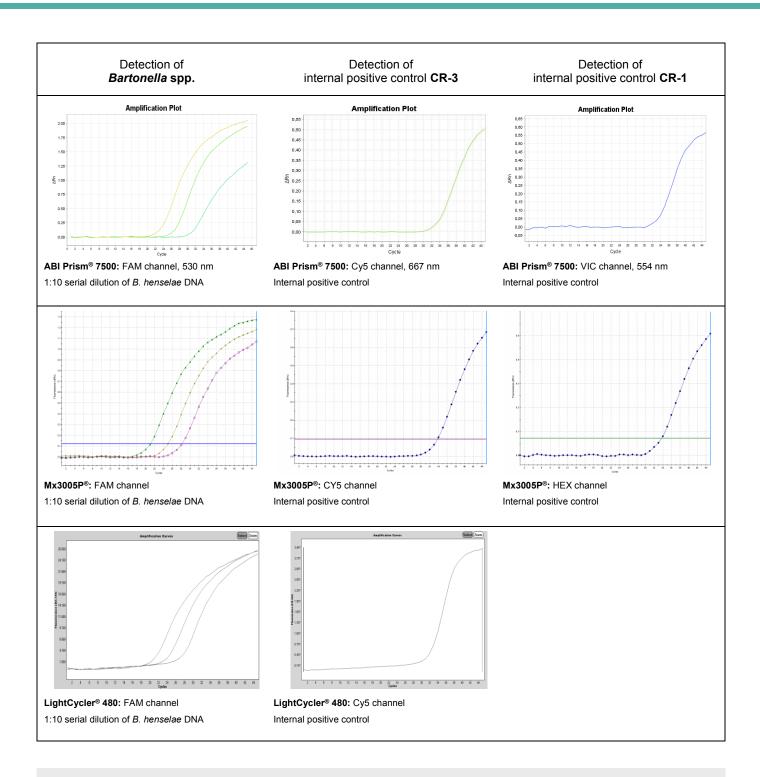
Sensitivity and specificity: BactoReal[®] Kit *Bartonella* spp. has a sensitivity of approx. 10 target copies of *B. henselae* per PCR-reaction. This test detects *B. clarridgeiae*, *B. elizabethae*, *B. grahamii*, *B. henselae*, *B. koehlerae*, *B. quintana*, *B. volans* and *B. washoensis*.

Bartonella rochalimae, B. vinsonii and B. bovis are detected with very low sensitivity. Bartonella bacilliformis is not detected.

References: Chomel BB, Kasten RW. 2010. Bartonellosis, an increasingly recognized zoonosis. J. Appl. Microbiol. 109:743-750.

Product Description





BactoReal®, MycoReal, ParoReal and ViroReal® Kits run with the same thermal cycling conditions.

RNA and DNA material can be analysed in one PCR run.

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