

BactoReal® Kit *Brucella* spp.



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Order no.	Reactions	Pathogen	Internal positive control
DHUB02153	50	FAM channel	Cy5 channel

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

Kit content:

- Detection assay for *Brucella* 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 *Brucella abortus*



Background: Brucellosis - also called Bang's disease, Crimean fever, Gibraltar fever, Malta fever, Maltese fever, Mediterranean fever, rock fever, or undulant fever - is a zoonotic infection of domesticated and wild animals, caused by bacteria of the genus *Brucella*. Humans become infected by ingestion of food products of animal origin (such as undercooked meat or unpasteurized milk or dairy products), direct contact with infected animals, or inhalation of infectious aerosols. Transmission from human to human is rare but possible. Species infecting domestic livestock are *B. melitensis* (goats and sheep), *B. suis* (pigs), *B. abortus* (cattle and bison), *B. ovis* (sheep) and *B. canis* (dogs).

Description: BactoReal® Kit *Brucella* spp. is a real-time PCR test detecting DNA of the IS711 region of *B. abortus*, *B. ovis*, *B. melitensis*, *B. suis* and *B. canis*. It allows the rapid and sensitive detection of *Brucella* from DNA samples purified from blood, milk, lymph tissue, bone marrow and biopsies (e.g. with the QIAamp DNA Mini Kit). *Brucella* 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 *Brucella* spp. detects at least 5 target copies/reaction of *Brucella abortus*. This kit is specific for *B. abortus*, *B. ovis*, *B. melitensis*, *B. suis* and *B. canis*.

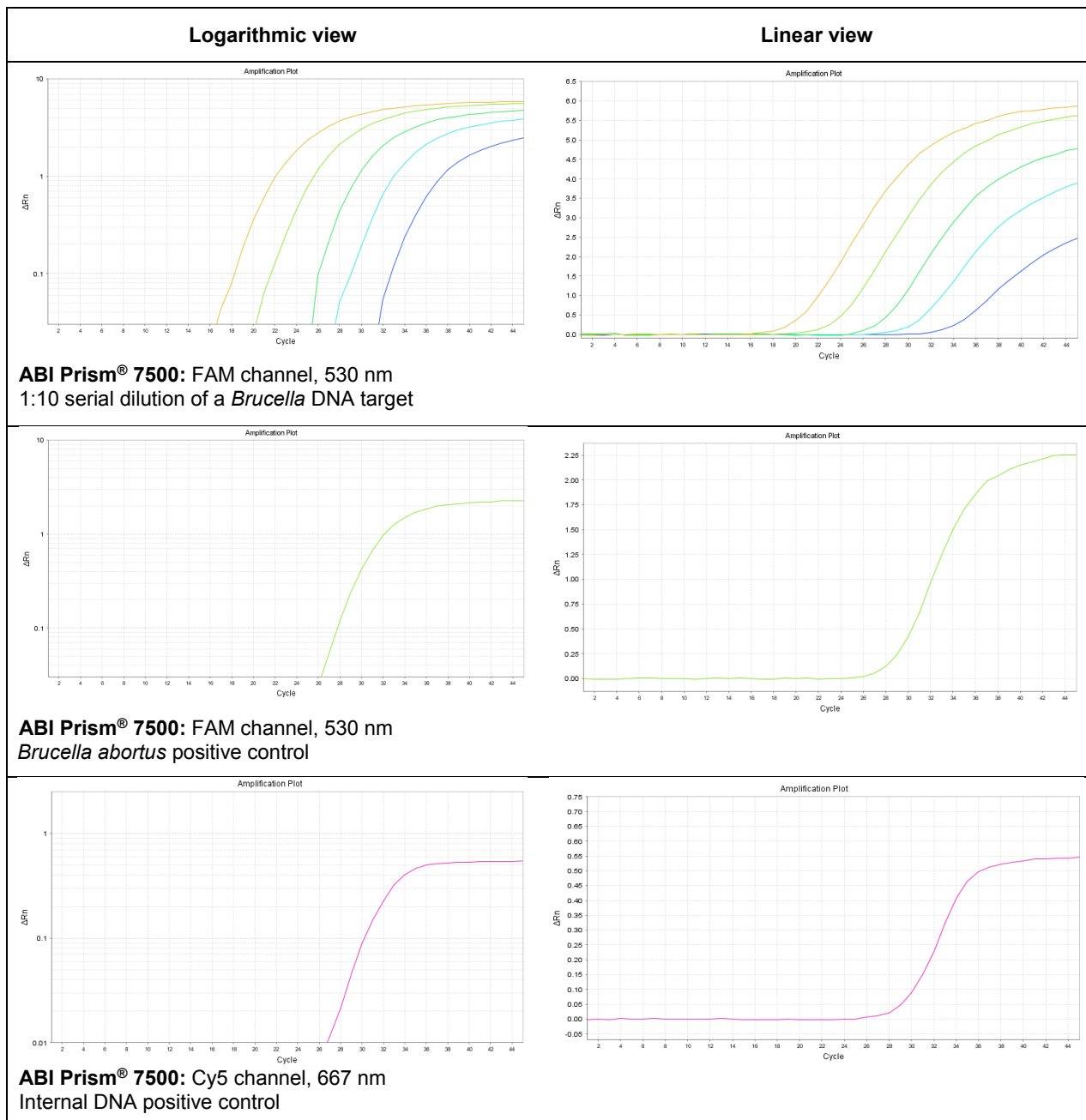


Figure 1 Performance of BactoReal® Kit *Brucella* spp.

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