

# BactoReal® Kit *Coxiella burnetii*



For veterinary use only

## BactoReal® Kit *Coxiella burnetii*

Order no.	Reactions	Pathogen	Internal positive control
DVEB05813	100	FAM channel	Cy5 channel
DVEB05853	50	FAM channel	Cy5 channel
DVEB05811	100	FAM channel	VIC/HEX channel
DVEB05851	50	FAM channel	VIC/HEX channel

### Kit contents:

- Detection assay for *Coxiella burnetii*
- Detection assay for internal positive control (control of amplification)
- DNA reaction mix (contains uracil-N glycosylase, UNG)
- Positive control for *Coxiella burnetii*
- Water

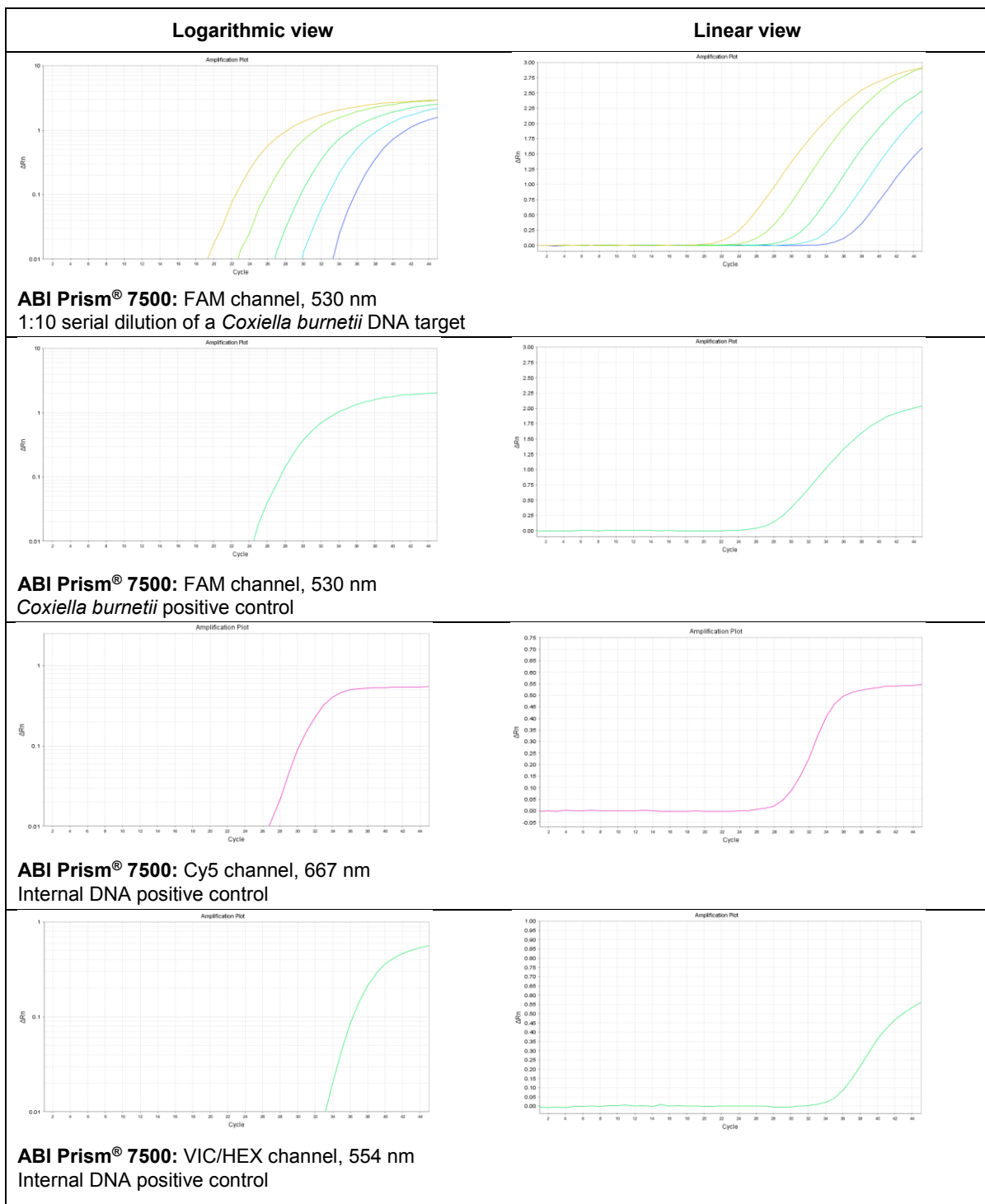


**Background:** *Coxiella burnetii* (*C. burnetii*) is a Gram-negative, obligate intracellular, zoonotic bacterial pathogen, which is the causative agent of Q fever (Coxiellosis). The disease is spread through inhalation of a spore-like cell variant or close contact with body fluids or products from contaminated animals. Cattle, sheep and goats represent the main animal reservoir. Seropositivity of ruminants for *C. burnetii* is associated with abortion, stillbirth and fertility problems. The high resistance to standard disinfectants and environmental influences renders disease control difficult. Antibiotic treatment and vaccination against Q fever is available.

**Description:** BactoReal® Kit *Coxiella burnetii* is based on the amplification and detection of the IS1111 insertion sequence of *Coxiella burnetii* using real-time PCR. It allows the rapid and sensitive detection of *Coxiella burnetii* from DNA samples purified from tissues and swabs (e.g. with the QIAamp DNA Mini Kit).

**PCR-platforms:** BactoReal® Kit *Coxiella burnetii* is developed 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 *Coxiella burnetii* detects at least 10 target copies/PCR reaction. Since the number of the IS1111 insertion sequence varies between 10–100 in the genome of *C. burnetii*, the sensitivity of the kit is equal to 0.1–1.0 *Coxiella burnetii* colony forming unit (CFU). Therefore, depending on the strain the determination of the CFU may differ by up to ten times. The kit is specific for *Coxiella burnetii*.



**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](http://www.ingenetix.com))