

BactoReal® Kit *Chlamydophila psittaci/abortus*



For veterinary use only

BactoReal® Kit *Chlamydophila psittaci/abortus*

Order no.	Reactions	Pathogen	Internal positive control
DVEB03013	100	FAM channel	Cy5 channel
DVEB03053	50	FAM channel	Cy5 channel
DVEB03011	100	FAM channel	VIC/HEX channel
DVEB03051	50	FAM channel	VIC/HEX channel

Kit contents:

- Detection assay for *Chlamydophila psittaci* and *C. abortus*
- Detection assay for internal positive control (control of amplification)
- DNA reaction mix (contains uracil-N glycosylase, UNG)
- Positive control for *Chlamydophila psittaci*
- Water



Background: *Chlamydophila psittaci* (previously classified as *Chlamydia psittaci*) is an intracellular bacterium that may cause endemic avian chlamydiosis in feral birds and domesticated poultry, epizootic outbreaks in mammals such as cattle, pigs, sheep and horses, and respiratory psittacosis in humans (also known as parrot fever and ornithosis). It is transmitted by inhalation, contact or ingestion among birds and to mammals. Psittacosis in birds and in humans often starts with flu-like symptoms and becomes a life-threatening pneumonia. *Chlamydophila psittaci* is present in feces, nasal secretions, and feathers of infected birds.

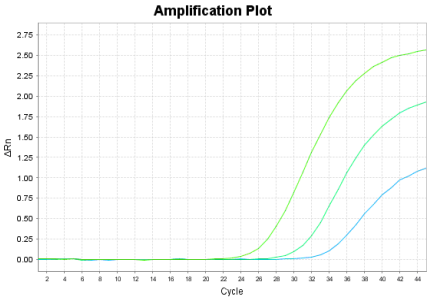
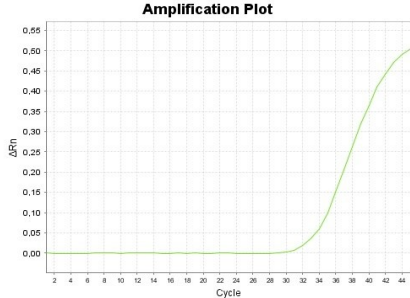
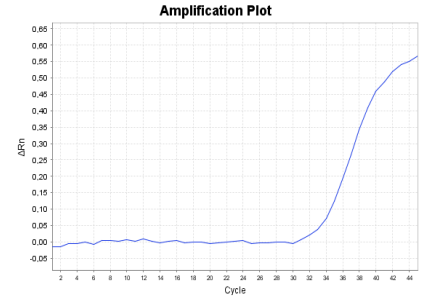
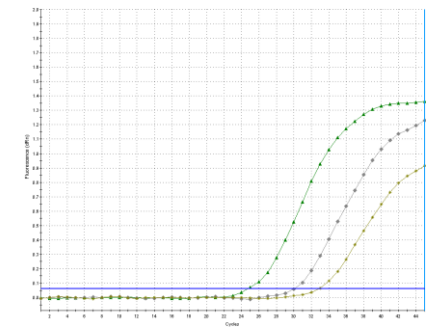
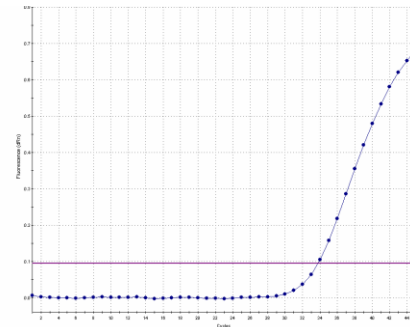
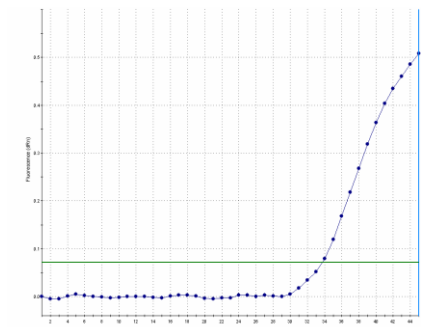
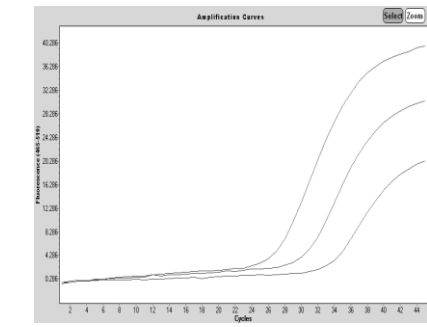
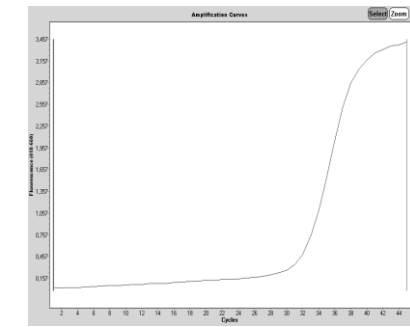
Chlamydophila abortus (previously classified as *Chlamydia psittaci* serotype 1) is one of the major infectious causes of abortion in sheep, cattle and goats worldwide by colonizing in the placenta. Enzootic abortion in sheep is also known as ovine enzootic abortion (OEA) or enzootic abortion of ewes (EAE). Infection with strains of this microorganism has also been associated with abortion and other clinical symptoms also in humans.

Description: BactoReal® Kit *Chlamydophila psittaci/abortus* is based on the amplification and detection of the omp1 gene of *C. psittaci* and *C. abortus* using real-time PCR. It allows the rapid and sensitive detection of *C. psittaci* and *C. abortus* from DNA samples purified from whole blood samples, sputum, pleural fluid, biopsies or swabs (e.g. with the QIAamp DNA Mini Kit).

PCR-platforms: BactoReal® Kit *Chlamydophila psittaci/abortus* 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 *Chlamydophila psittaci/abortus* has an analytical sensitivity of 5 target copies per PCR. Specificity was tested on different bacterial isolates (*B. pertussis*, *C. pneumoniae*, *L. pneumophila*, *M. hyopneumoniae*, *M. hyorhinis*, and *M. pneumoniae*). No cross-reaction was observed. However, the test may cross-react with *Chlamydophila felis* and *Chlamydophila caviae*.

References: Rodolakis A, Yousef Mohamad K. 2010. Zoonotic potential of *Chlamydophila*. Vet Microbiol. 140:382-91.

Detection of <i>Chlamydomyphila psittaci</i>	Detection of internal positive control CR-3	Detection of internal positive control CR-1
		
<p>ABI Prism® 7500: FAM channel, 530 nm 1:10 serial dilution of <i>C. psittaci</i> DNA</p>	<p>ABI Prism® 7500: Cy5 channel, 667 nm Internal positive control</p>	<p>ABI Prism® 7500: VIC channel, 554 nm Internal positive control</p>
		
<p>Mx3005P®: FAM channel 1:10 serial dilution of <i>C. psittaci</i> DNA</p>	<p>Mx3005P®: CY5 channel Internal positive control</p>	<p>Mx3005P®: HEX channel Internal positive control</p>
		
<p>LightCycler® 480: FAM channel 1:10 serial dilution of <i>C. psittaci</i> DNA</p>	<p>LightCycler® 480: Cy5 channel Internal positive control</p>	

BactoReal®, MycoReal, ParoReal and ViroReal® Kits run with the same thermal cycling conditions. RNA and DNA material can be analysed in one PCR run.

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