

BactoReal[®] Kit *Pasteurella multocida*



For veterinary use only

BactoReal[®] Kit *Pasteurella multocida*

Order no.	Reactions	Pathogen	Internal positive control
DVEB02813	100	FAM channel	Cy5 channel
DVEB02853	50	FAM channel	Cy5 channel
DVEB02811	100	FAM channel	VIC/HEX channel
DVEB02851	50	FAM channel	VIC/HEX channel

Kit contents:

- Detection assay for *Pasteurella multocida*
- Detection assay for internal positive control (control of amplification)
- DNA reaction mix (contains uracil-N glycosylase, UNG)
- Positive control for *P. multocida*
- Water



Background: The Gram-negative bacterium *Pasteurella multocida* is able to cause disease in a wide range of animal species and in humans. *Pasteurella multocida* can cause fowl cholera disease in poultry, hemorrhagic septicemia and shipping fever in cattle, atrophic rhinitis in pigs and is the most common cause of respiratory disease, primarily rhinitis, in rabbits. Although *Pasteurella multocida* is part of the flora in the respiratory tract of pigs, the bacterium can induce hemorrhagic septicemia or, usually as a secondary pathogen invading lungs injured by other bacteria or viruses, pneumonia. A subset of *Pasteurella multocida* isolates are critical agents in an upper respiratory disease, progressive atrophic rhinitis (PAR) in pigs.

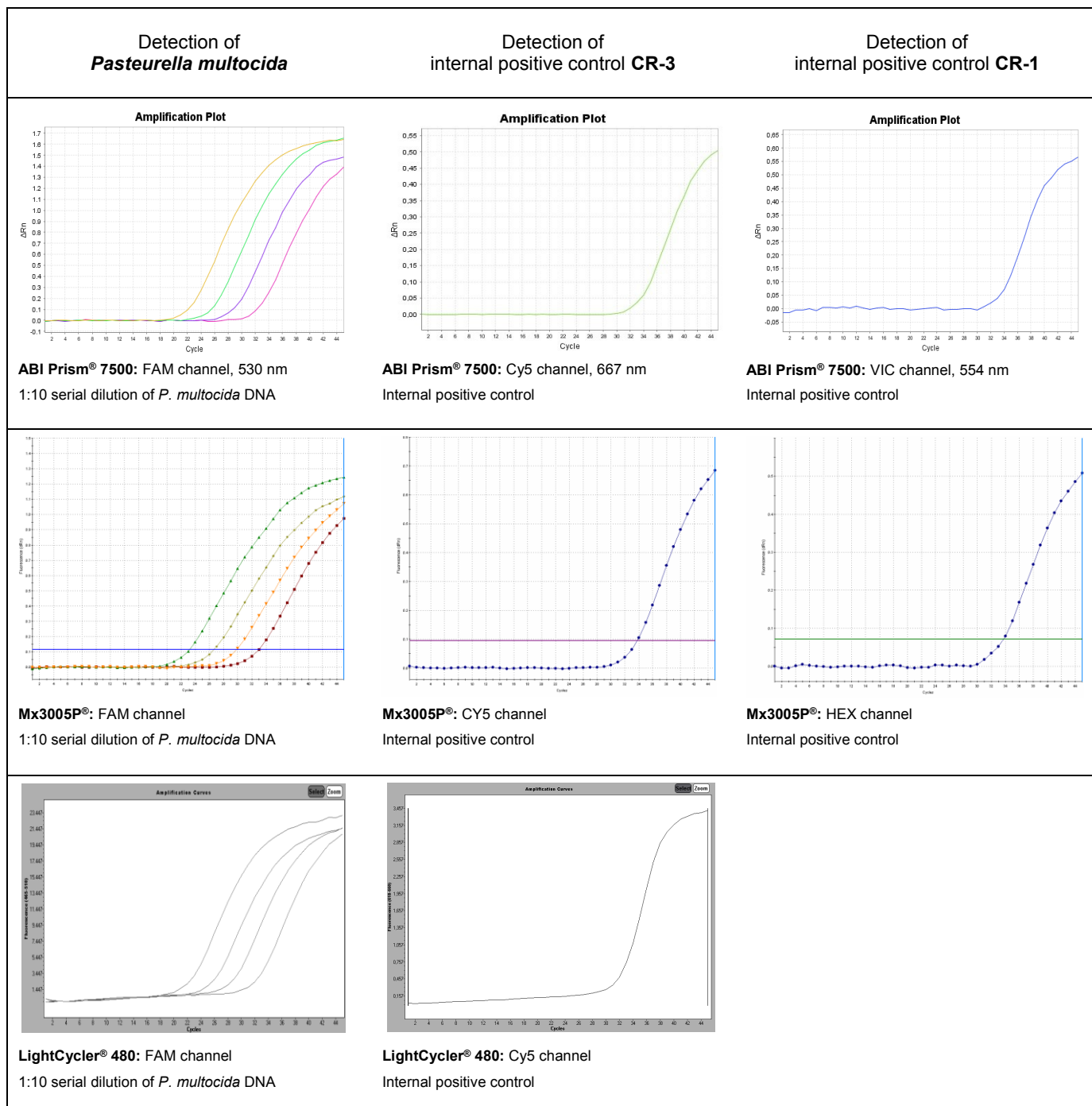
Description: BactoReal[®] Kit *Pasteurella multocida* is based on the amplification and detection of the 16S rRNA gene of *P. multocida* (subsp. *multocida*, *gallicida*, *septica* and *tigris*) using real-time PCR. It does not detect other *Pasteurella* species. It allows the rapid and sensitive detection of the 16S rRNA gene of *P. multocida* from DNA samples purified from blood, swabs or biopsies (e.g. with the QIAamp DNA Mini Kit).

PCR-platforms: BactoReal[®] Kit *Pasteurella multocida* 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 *Pasteurella multocida* has an analytical sensitivity of two target copies per PCR reaction. The region selected for amplification shows high sequence identity within subspecies of *P. multocida* (subsp. *multocida*, *gallicida*, *septica* and *tigris*) but high divergence among other *Pasteurella* species, *Haemophilus influenzae*, *Haemophilus parasuis* or *Mannheimia* species.

References: Harper M, Boyce JD, Adler B. 2006. *Pasteurella multocida* pathogenesis: 125 years after Pasteur. FEMS Microbiol Lett. 265:1-10.

For detection of toxigenic *P. multocida* strains associated with PAR ingenetix offers BactoReal[®] Kit *Pasteurella multocida* toxA.



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)