

BactoReal® Kit *Haemophilus parasuis*



For veterinary use only

BactoReal® Kit *Haemophilus parasuis*

Order no.	Reactions	Pathogen	Internal positive control
DVEB00413	100	FAM channel	Cy5 channel
DVEB00453	50	FAM channel	Cy5 channel
DVEB00411	100	FAM channel	VIC/HEX channel
DVEB00451	50	FAM channel	VIC/HEX channel

Kit contents:

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



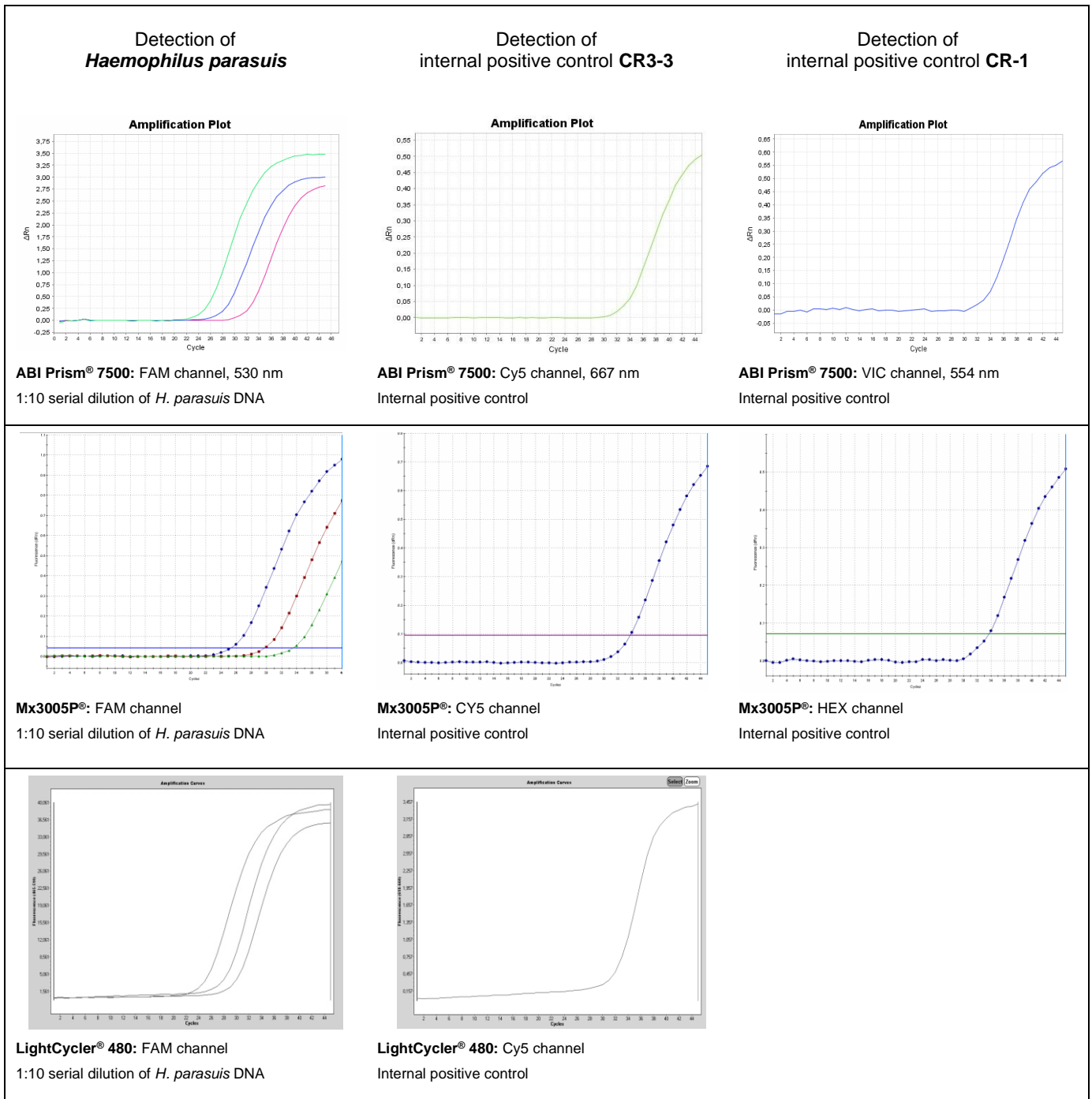
Background: *Haemophilus parasuis* (newly classified as *Glaesserella parasuis*) is a Gram-negative bacterium (member of the *Pasteurellaceae*) of the upper respiratory tract of swine. It is the aetiological agent of Glässers disease, a severe systemic disease characterized by fibrinous polyserositis, pericarditis, arthritis and meningitis. In addition to the acute form of the disease, *Haemophilus parasuis* is an important component of the Porcine Respiratory Disease Complex (PRDC). Fifteen serovars of *H. parasuis* have been reported, but a high percentage of the evaluated isolates are nontypeable. Isolates from the upper respiratory tract are mainly apathogenic strains of clinically healthy swine.

Description: BactoReal® Kit *Haemophilus parasuis* is based on the amplification and detection of the 16S rRNA gene of *H. parasuis* using real-time PCR. It allows the rapid and sensitive detection of the 16S rRNA gene of *H. parasuis* from samples purified from biopsies (e.g. lung, heart, meninges), as well as from synovial fluid, pleural fluid, pericardial fluid, peritoneal fluid, or cerebrospinal fluid (e.g. with the QIAamp DNA Mini Kit).

PCR-platforms: BactoReal® Kit *Haemophilus parasuis* is developed and validated for the ABI PRISM® 7500 instrument (Thermo Fisher Scientific), LightCycler® 480 (Roche) and Mx3005P® QPCR System (Agilent), but is also suitable for other real-time PCR instruments.

Sensitivity and specificity: BactoReal® Kit *Haemophilus parasuis* has a sensitivity of 10 target copies/PCR reaction. The limit of detection (LoD95 = smallest number of copies of target DNA which can be detected in 95% of cases) is 72 target copies/reaction and was determined by several replicates around the detection limit. Specificity was tested on isolates of *Actinobacillus porcinus*, *Actinobacillus minor*, *E. coli*, *H. influenzae*, *H. parainfluenzae*, *Aggregatibacter aphrophilus* (formerly *H. aphrophilus*), *M. pneumoniae* and *P. multocida*. Furthermore, a total of 27 field samples were tested with the kit. Cross reactions were observed with *A. porcinus*, *A. minor* and *A. aphrophilus*. Blast analyses revealed possible cross reactivity with *Actinobacillus indolicus*, *Pasteurella mairii* and *Glaesserella* sp. (accession number CP023057).

References: A. Olvera, J. Segalés and V. Aragon. 2007. Update on diagnosis of *Haemophilus parasuis* infection in pigs and novel genotyping methods. *Vet. J.* 174: 522-529.



**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)