BactoReal® Kit
Mycoplasma hyopneumoniae

For veterinary use only

BactoReal® Kit *Mycoplasma hyopneumoniae*

Order no.	Reactions	Pathogen	Internal positive control
DVEB00113	100	FAM channel	Cy5 channel
DVEB00153	50	FAM channel	Cy5 channel
DVEB00111	100	FAM channel	VIC/HEX channel
DVEB00151	50	FAM channel	VIC/HEX channel

Kit contents:

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

Background: *Mycoplasma hyopneumoniae* is a primary pathogen of respiratory disease in pigs. This bacterium is one of the most important causative agents of the enzootic pneumonia (EP) and of the porcine respiratory disease complex (PRDC).

Description: BactoReal® Kit *Mycoplasma hyopneumoniae* is based on the amplification and detection of the rpoB gene of *M. hyopneumoniae* using real-time PCR. It allows the rapid and sensitive detection of the rpoB gene of *M. hyopneumoniae* from DNA samples purified from lung biopsies or bronchoalveolar lavages (e.g. with the QIAamp DNA Mini Kit).

PCR-platforms: BactoReal® Kit *Mycoplasma hyopneumoniae* 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® *Mycoplasma hyopneumoniae* 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 37 target copies/reaction and was determined by several replicates around the detection limit. The assay is specific for *Mycoplasma hyopneumoniae*. Specificity was tested on isolates of *E. coli, H. parasuis, M. pneumoniae, M. hyorhinis, M. hyopneumoniae* and *P. multocida.* No cross reactions were observed. Ten field samples were analysed and the pathogen correctly identified.

References: Kobisch M, Friis NF. 1996. Swine mycoplasmoses. Rev Sci Tech. 15:1569-605.

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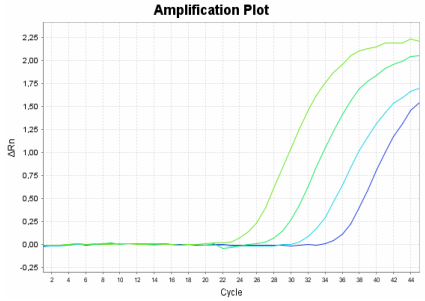
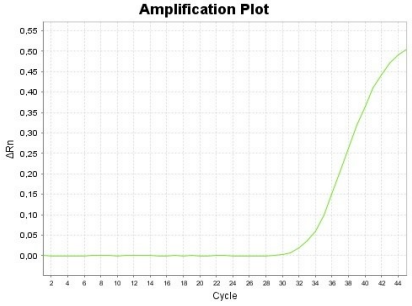
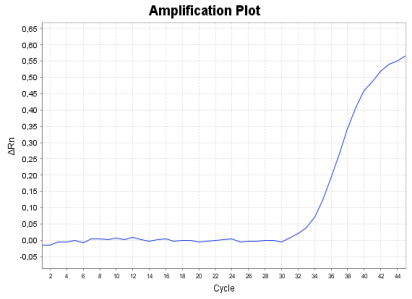
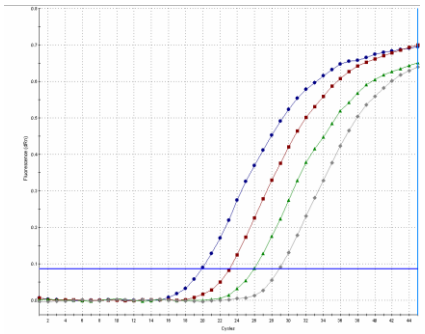
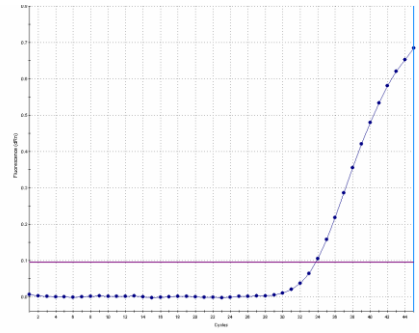
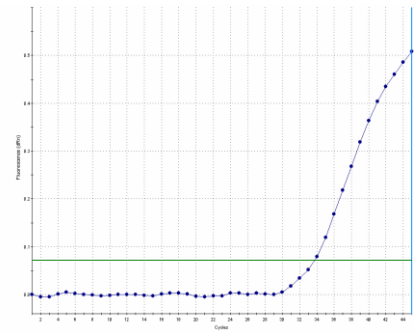
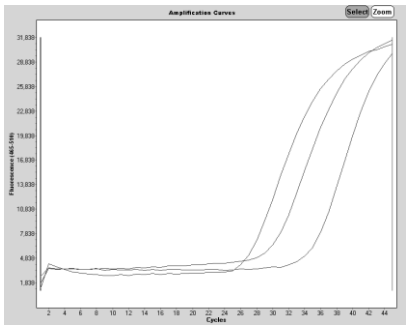
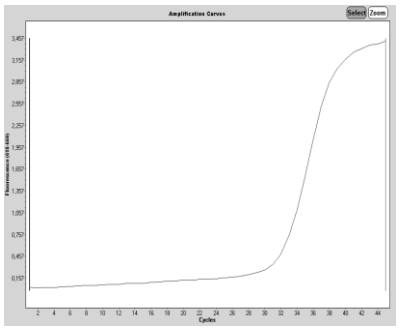
Product Description

Detection of *M. hyopneumoniae*	Detection of internal positive control **CR-3**	Detection of internal positive control **CR-1**
		
ABI Prism® 7500: FAM channel, 530 nm 1:10 serial dilution of *M. hyopneumoniae* DNA	**ABI Prism® 7500:** Cy5 channel, 667 nm Internal positive control	**ABI Prism® 7500:** VIC channel, 554 nm Internal positive control
		
Mx3005P®: FAM channel 1:10 serial dilution of *M. hyopneumoniae* DNA	**Mx3005P®:** CY5 channel Internal positive control	**Mx3005P®:** HEX channel Internal positive control
		
LightCycler® 480: FAM channel 1:10 serial dilution of *M. hyopneumoniae* DNA	**LightCycler® 480:** Cy5 channel Internal positive control	

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)