BactoReal® Kit *Mycoplasma suis*

For veterinary use only

BactoReal® Kit *Mycoplasma suis*			
Order no.	**Reactions**	**Pathogen**	**Internal positive control**
DVEB02613	100	FAM channel	Cy5 channel
DVEB02653	50	FAM channel	Cy5 channel
DVEB02611	100	FAM channel	VIC/HEX channel
DVEB02651	50	FAM channel	VIC/HEX channel

Kit contents:

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

Background: *Mycoplasma suis* (formerly called *Eperythrozoon suis*) belongs to the hemotrophic mycoplasma group. It is the cause of swine eperythrozoonosis. Acute disease is associated with severe bacteremia and acute hemolytic anemia. In chronically infected pigs clinical signs range from mild icteroanemia, poor growth rates or bad reproductive performance.

Description: BactoReal® Kit *Mycoplasma suis* is based on the amplification and detection of the 16S rDNA gene of *M. suis* using real-time PCR. It allows the rapid and sensitive detection of the 16S rDNA gene of *M. suis* from DNA samples purified from tracheal swabs, washes or from lung tissue or associated lymph nodes (e.g. with the QIAamp DNA Mini Kit). This test does not detect *Mycoplasma parvum.*

PCR-platforms: BactoReal® Kit *Mycoplasma suis* 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.

Sensititivity and specificity: BactoReal® Kit *Mycoplasma suis* detects at least one target copy per PCR reaction. The limit of detection (LoD95 = smallest number of copies of target DNA which can be detected in 95% of cases) is seven target copies/reaction and was determined by several replicates around the detection limit. The kit is specific for *Mycoplasma suis*. Specificity was tested on isolates of *Mycoplasma bovis, Mycoplasma gallisepticum, Mycoplasma hyorhinis, Mycoplasma hyopneumoniae* and *Mycoplasma pneumoniae.* No cross reactions were observed. Furthermore, seven field samples positive for *M. suis* were correctly analysed.

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

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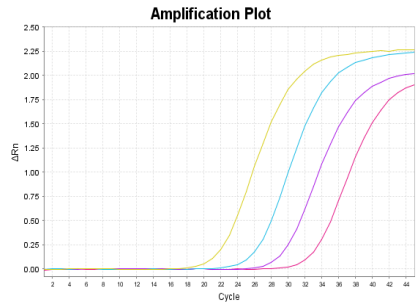
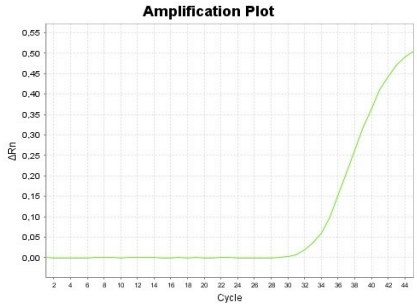
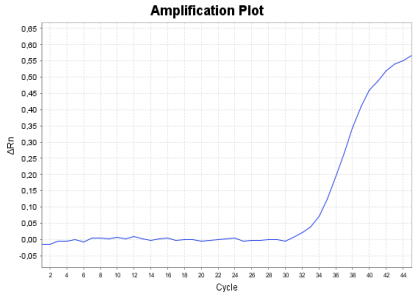
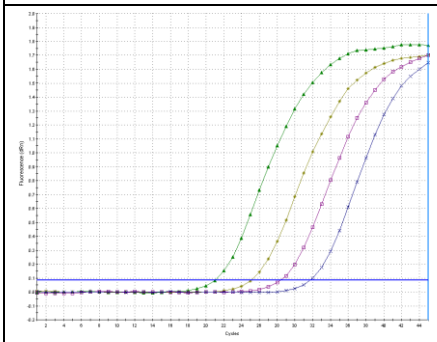
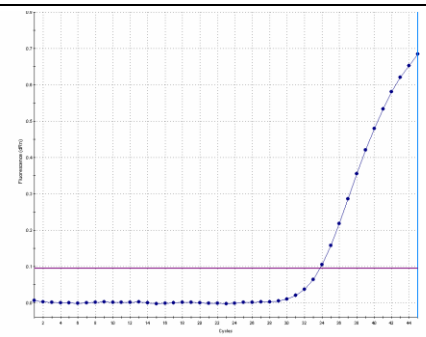
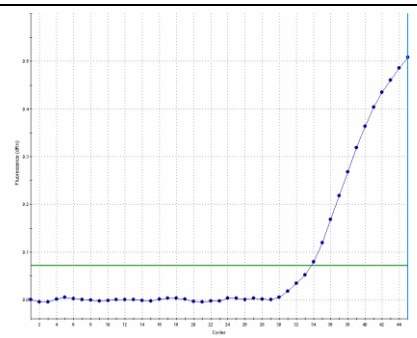
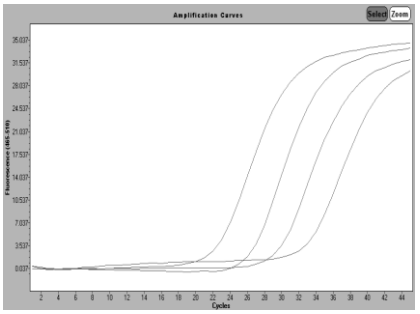
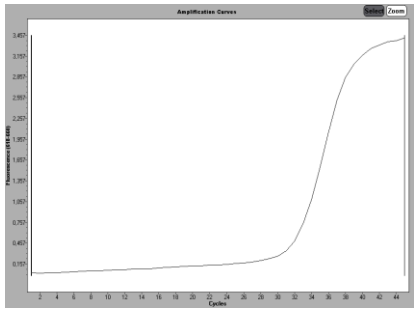
Detection of *Mycoplasma suis*	Detection of internal positive control **CR-3**	Detection of internal positive control **CR-1**
		
ABI Prism® 7500: FAM channel, 530 nm 1:10 serial dilution of *M. suis* DNA	**ABI Prism® 7500:** Cy5 channel, 667 nm Internal positive control	**ABI Prism® 7500**: VIC channel,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

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