

BactoReal® Kit *Streptococcus suis*



For veterinary use only

BactoReal® Kit *Streptococcus suis*

Order no.	Reactions	Pathogen	Internal positive control
DVEB06013	100	FAM channel	Cy5 channel
DVEB06053	50	FAM channel	Cy5 channel
DVEB06011	100	FAM channel	VIC/HEX channel
DVEB06051	50	FAM channel	VIC/HEX channel

Kit contents:

- Detection assay for *Streptococcus suis*
- Detection assay for internal positive control (control of amplification)
- DNA reaction mix (contains uracil-N glycosylase, UNG)
- Positive control for *Streptococcus suis*
- Water

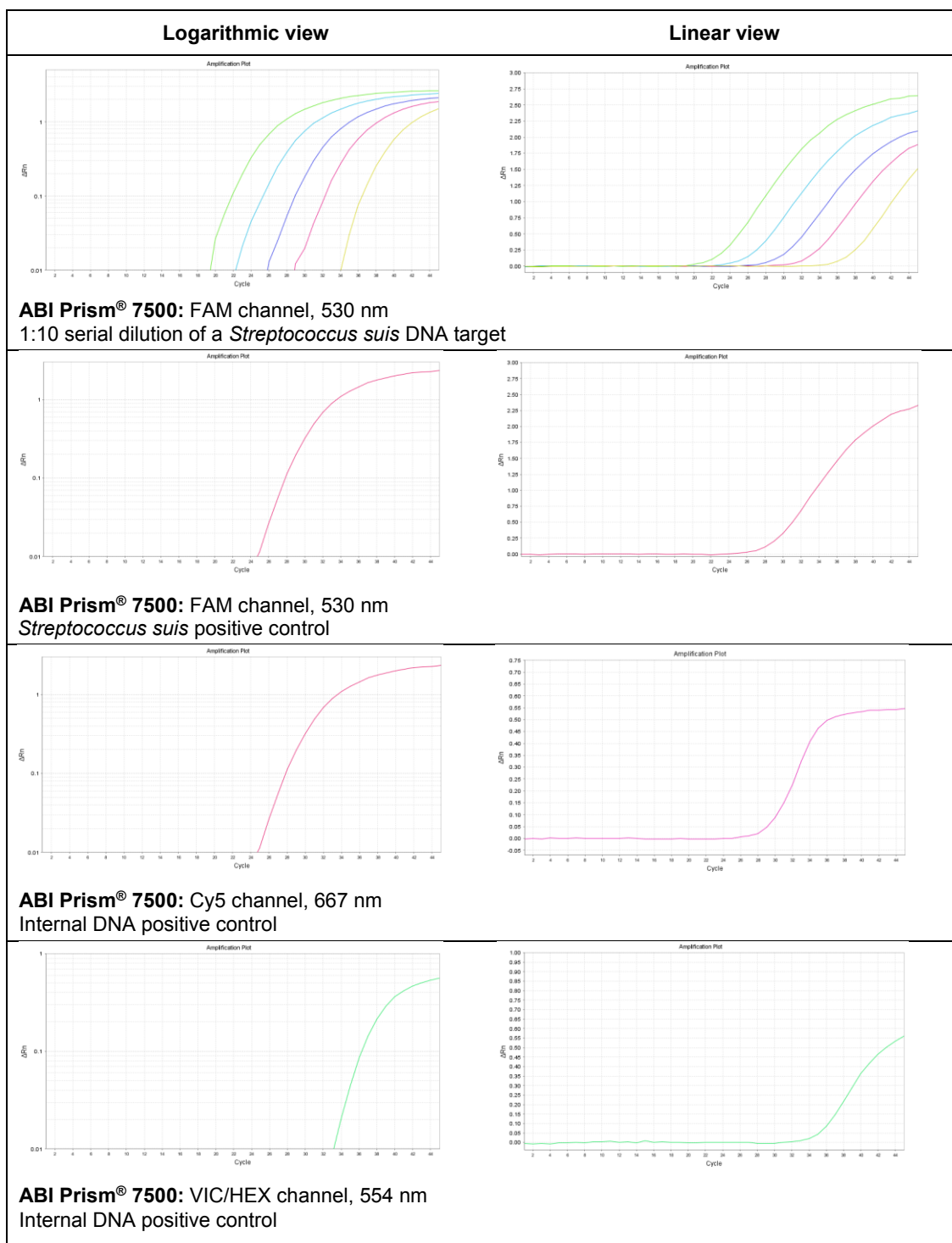


Background: *Streptococcus suis* (*S. suis*) is a Gram-positive, zoonotic bacterial pathogen of pigs and wild boars. It is associated with fever, sudden deaths, respiratory problems, pneumonia, meningitis and fertility problems in pig herds, representing a substantial economic burden for the pig industry. *S. suis* responds to ampicillin and amoxicillin treatment. Transmission from swine to human is possible, causing mostly bacterial meningitis.

Description: BactoReal® Kit *Streptococcus suis* is based on the amplification and detection of the fibrinogen binding protein (fbpS) gene of *Streptococcus suis* using real-time PCR. It allows the rapid and sensitive detection of *Streptococcus suis* from DNA samples purified from tissues (e.g. with the QIAamp DNA Mini Kit).

PCR-platforms: BactoReal® Kit *Streptococcus suis* is developed 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 *Streptococcus suis* detects at least one 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 25 target copies/reaction and was determined by several replicates around the detection limit. The kit was tested on different bacterial isolates and field samples and is specific for *Streptococcus suis*. Sequence comparison ensures the detection of the most prevalent serotypes 1, 1/2, 2, 3, 4, 7, 9 and 14.



**BactoReal®, MycoReal, PoroReal 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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