

# BactoReal® Kit

## *Streptococcus agalactiae*



For veterinary use only

### BactoReal® Kit *Streptococcus agalactiae*

Order no.	Reactions	Pathogen	Internal positive control
DVEB01513	100	FAM channel	Cy5 channel
DVEB01553	50	FAM channel	Cy5 channel
DVEB01511	100	FAM channel	VIC/HEX channel
DVEB01551	50	FAM channel	VIC/HEX channel

#### Kit contents:

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



**Background:** *Streptococcus agalactiae* (also known as Group B streptococcus or GBS) is a beta-hemolytic Gram-positive streptococcus. It is pathogenic primarily for animals, but can also infect humans. Since *S. agalactiae* strains isolated from animals can be differentiated from those isolated from humans, transmission from animals to humans is rare. In cattle it causes mastitis, an infection of the udder which leads to diminished milk production. Transmission occurs during milking. *Streptococcus agalactiae* secretes a protein (CAMP factor) which causes haemolysis in the presence of beta-toxin of *Staphylococcus aureus* in blood agar.

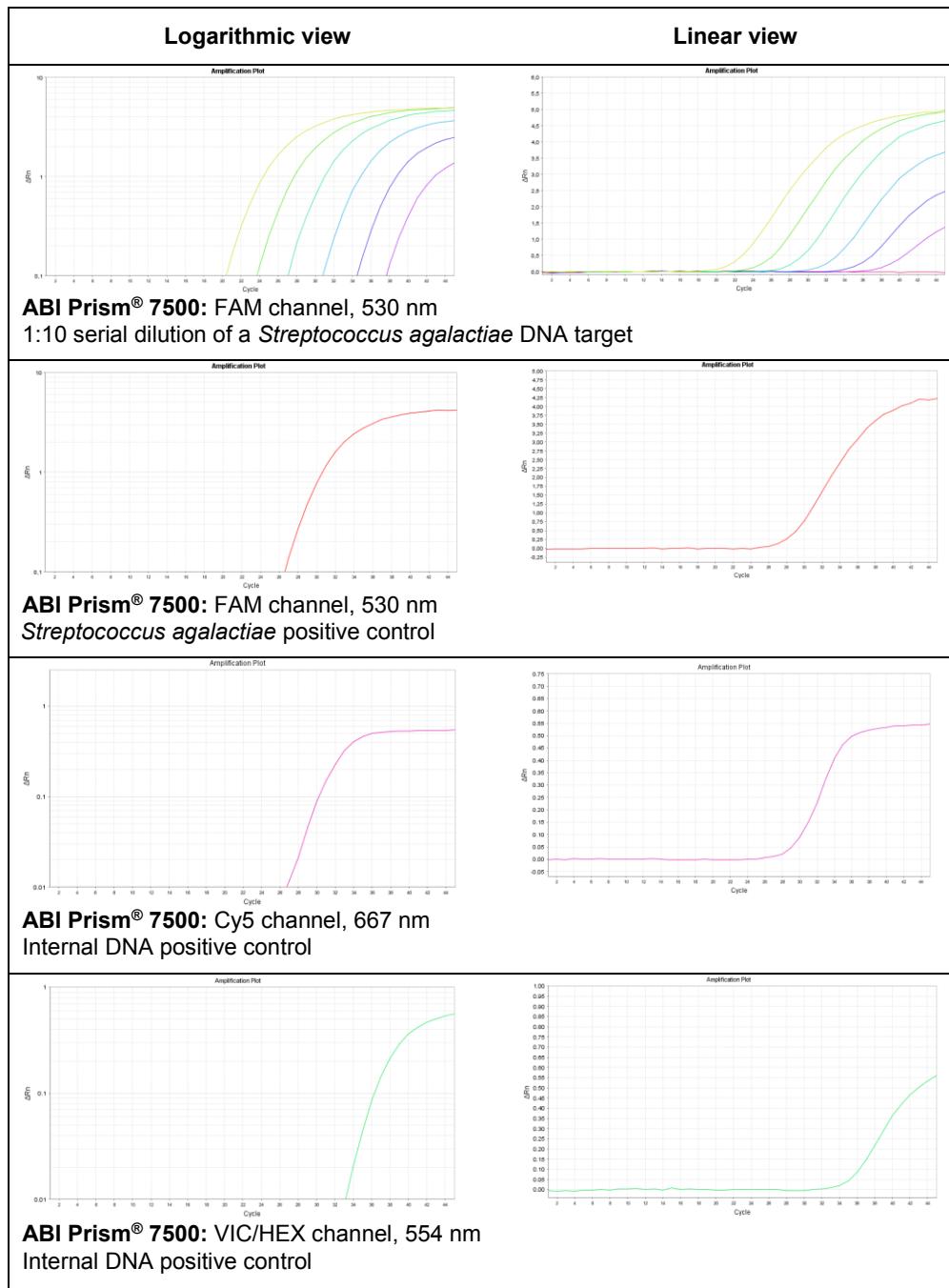
**Description:** BactoReal® Kit *Streptococcus agalactiae* is based on the amplification and detection of the cfb gene of *S. agalactiae* using real-time PCR. It allows the rapid and sensitive detection of the cfb gene of *S. agalactiae* from DNA samples purified from milk or other sample material.

**PCR-platforms:** BactoReal® Kit *Streptococcus agalactiae* 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 *Streptococcus agalactiae* has a sensitivity of 1 target copy/PCR reaction. The limit of detection (LoD95 = smallest number of copies of target DNA which can be detected in 95% of cases) is 3 target copies/reaction and was determined by several replicates around the detection limit. Specificity was tested on isolates of *B. parapertussis*, *B. pertussis*, *C. pneumoniae*, *E. coli*, *H. influenzae*, *L. monocytogenes*, *L. pneumophila*, *M. pneumoniae*, *N. meningitidis*, *P. multocida*, *S. anginosus*, *S. constellatus*, *S. equinus*, *S. intermedius*, *S. mitis*, *S. mutans*, *S. parasanguinis*, *S. pneumoniae*, *S. pyogenes*, *S. sanguis*, *S. uberis*, *S. bovis*, *S. dysgalactiae*, *S. canis*, *S. aureus*, *A. viridans*, *E. faecium*, *E. faecalis*, *Corynebacterium* and *Cryptococcus*. No cross-reactions were observed.

**References:** Keefe GP. 1997. *Streptococcus agalactiae* mastitis: a review. Can Vet J. 38:429-437.

# Product Description



**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](http://www.ingenetix.com))