

# BactoReal® Kit

## *Streptococcus uberis*



For veterinary use only

### BactoReal® Kit *Streptococcus uberis*

Order no.	Reactions	Pathogen	Internal positive control
DVEB01613	100	FAM channel	Cy5 channel
DVEB01653	50	FAM channel	Cy5 channel
DVEB01611	100	FAM channel	VIC/HEX channel
DVEB01651	50	FAM channel	VIC/HEX channel

#### Kit contents:

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



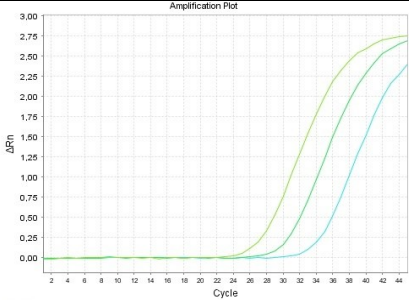
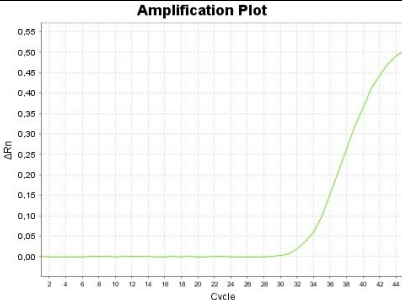
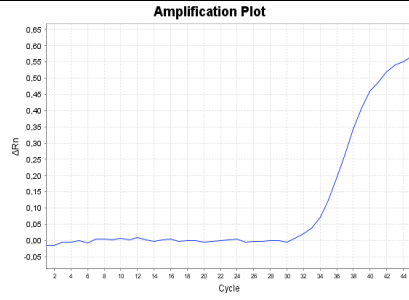
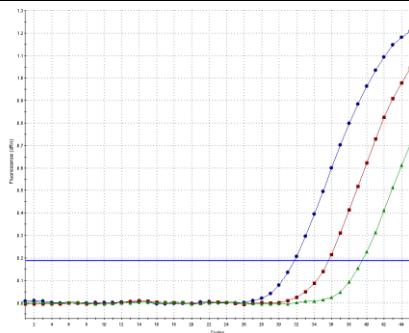
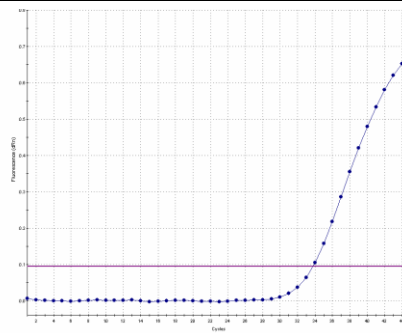
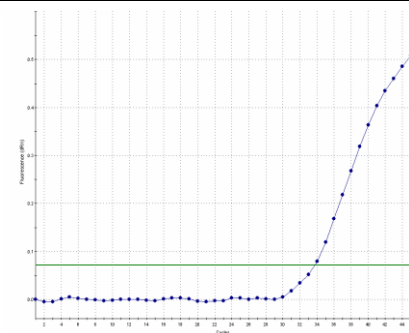
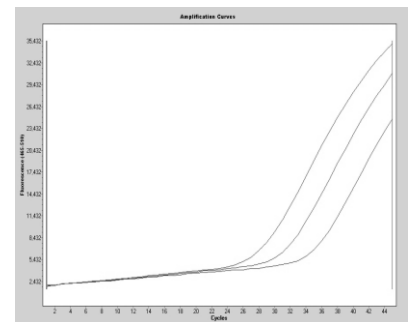
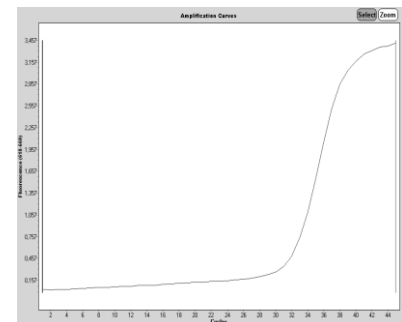
**Background:** *Streptococcus uberis* is a Gram-positive bacterium known worldwide as an environmental pathogen responsible for a high proportion of cases of clinically acute as well as subclinical bovine mastitis.

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

**PCR-platforms:** BactoReal® Kit *Streptococcus uberis* 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® Kit *Streptococcus uberis* 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 9 target copies/reaction and was determined by several replicates around the detection limit. Specificity was tested on isolates of *Corynebacterium* sp., *E. faecalis*, *E. coli*, *H. parasuis*, *L. luteus*, *L. monocytogenes*, *P. multocida*, *S. agalactiae*, *S. anginosus*, *S. constellatus*, *S. dysgalactiae*, *S. equinus*, *S. intermedius*, *S. mitis*, *S. mutans*, *S. parasanguinis*, *S. sanguis*, *S. uberis*, *S. pneumoniae*, *S. pyogenes* and *S. aureus*. No cross reactions were observed.

**References:** Bradley, A. J. 2002. Bovine mastitis: An evolving disease. The Veterinary Journal, 163: 1-13.

Detection of <i>Streptococcus uberis</i>	Detection of internal positive control CR-3	Detection of internal positive control CR-1
 <p><b>ABI Prism® 7500:</b> FAM channel, 530 nm 1:10 serial dilution of <i>S. uberis</i> DNA</p>	 <p><b>ABI Prism® 7500:</b> Cy5 channel, 667 nm Internal positive control</p>	 <p><b>ABI Prism® 7500:</b> VIC channel, 554 nm Internal positive control</p>
 <p><b>Mx3005P®:</b> FAM channel 1:10 serial dilution of <i>S. uberis</i> DNA</p>	 <p><b>Mx3005P®:</b> CY5 channel Internal positive control</p>	 <p><b>Mx3005P®:</b> HEX channel Internal positive control</p>
 <p><b>LightCycler® 480:</b> FAM channel 1:10 serial dilution of <i>S. uberis</i> DNA</p>	 <p><b>LightCycler® 480:</b> Cy5 channel Internal positive control</p>	

**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))