

BactoReal® Kit *Trueperella pyogenes*



For veterinary use only

BactoReal® Kit *Trueperella pyogenes*

Order no.	Reactions	Pathogen	Internal positive control
DVEB05113	100	FAM channel	Cy5 channel
DVEB05153	50	FAM channel	Cy5 channel
DVEB05111	100	FAM channel	VIC/HEX channel
DVEB05151	50	FAM channel	VIC/HEX channel

Kit contents:

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



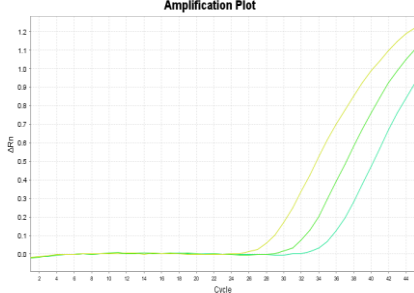
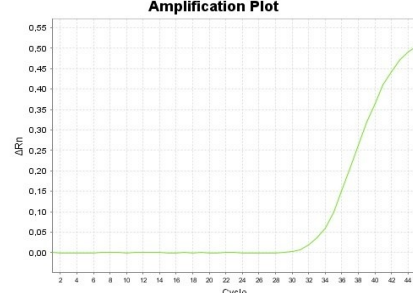
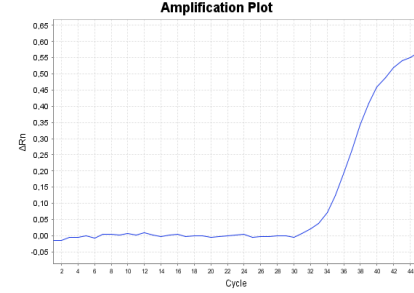
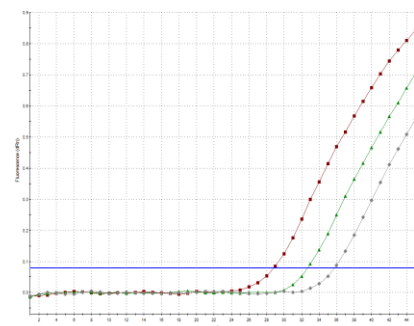
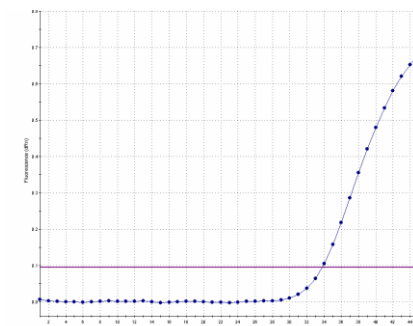
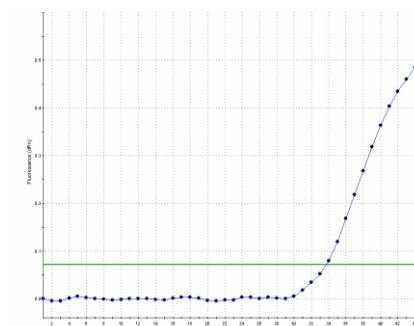
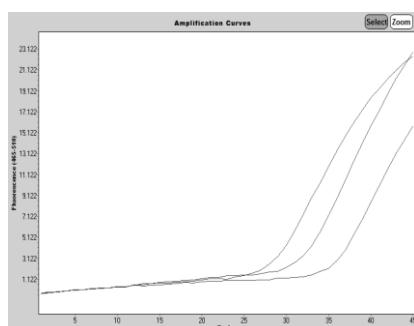
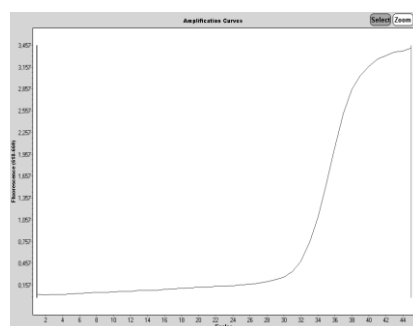
Background: *Trueperella pyogenes* (formerly *Arcanobacterium pyogenes*, *Corynebacterium pyogenes*, *Actinomyces pyogenes*) is a Gram-positive commensal and opportunistic pathogen of economically important livestock, causing diseases such as mastitis, abscesses and pneumonia.

Description: BactoReal® Kit *Trueperella pyogenes* is based on the amplification and detection of the 16S rRNA gene of *Trueperella pyogenes* (formerly *Arcanobacterium pyogenes*) using real-time PCR. It allows the rapid and sensitive detection of *Trueperella pyogenes* from samples purified from biopsies, bronchoalveolar lavage (BAL), swabs and milk (e.g. with the QIAamp DNA Mini Kit).

PCR-platforms: BactoReal® Kit *Trueperella pyogenes* 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 *Trueperella pyogenes* has a sensitivity of 10 target copies/PCR reaction and is specific for *Trueperella pyogenes*, *Arcanobacterium bonsai* and *Arcanobacterium bernardiae*. The kit was evaluated with eight *Trueperella pyogenes* strains.

References: Jost BH, Billington SJ. 2005. *Arcanobacterium pyogenes*: molecular pathogenesis of an animal opportunist. *Antonie Van Leeuwenhoek* 88:87-102.

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

**BactoReal®, MycoReal, PoroReal 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)