

BactoReal® Kit

Corynebacterium pseudotuberculosis



For veterinary use only

BactoReal® Kit <i>Corynebacterium pseudotuberculosis</i>			
Order no.	Reactions	Pathogen	Internal positive control
DVEB05213	100	FAM channel	Cy5 channel
DVEB05253	50	FAM channel	Cy5 channel
DVEB05211	100	FAM channel	VIC/HEX channel
DVEB05251	50	FAM channel	VIC/HEX channel

Kit contents:

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



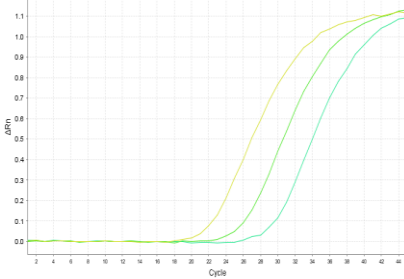
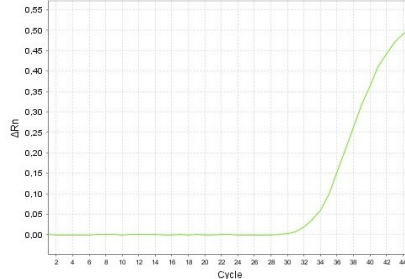
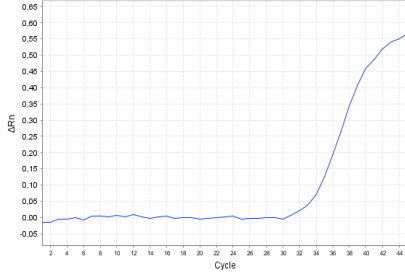
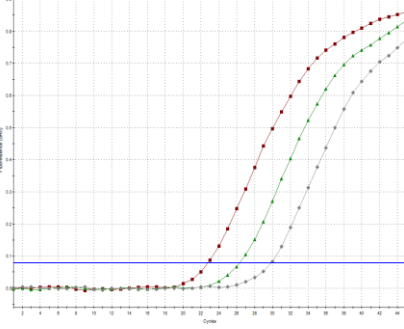
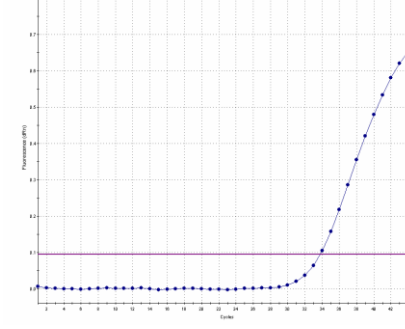
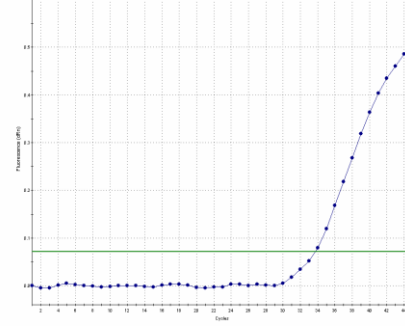
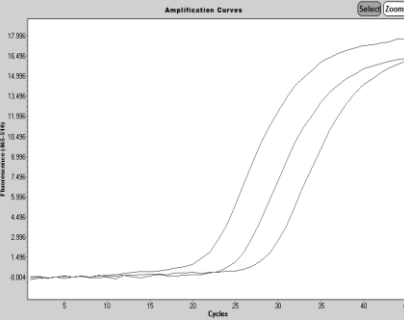
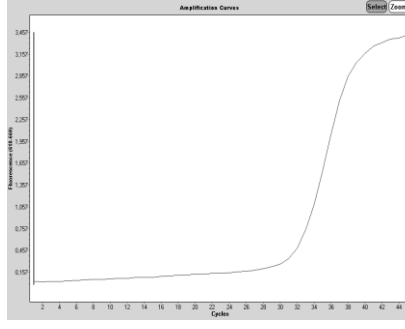
Background: *Corynebacterium pseudotuberculosis* is a Gram-positive bacterium and the aetiological agent of external or cutaneous abscessation, lymphangitis, and internal abscessation affecting sheep, goats, horses, cattle and rarely humans as well. *Corynebacterium pseudotuberculosis* produces an exotoxin called phospholipase D that enhances dissemination of the bacteria by damaging endothelial cells and increasing vascular permeability.

Description: BactoReal® Kit *Corynebacterium pseudotuberculosis* is based on the amplification and detection of the phospholipase D (pld) gene of *Corynebacterium pseudotuberculosis* using real-time PCR. It allows the rapid and sensitive detection of *Corynebacterium pseudotuberculosis* from samples purified from biopsies (e.g. with the QIAamp DNA Mini Kit).

PCR-platforms: BactoReal® Kit *Corynebacterium pseudotuberculosis* 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 *Corynebacterium pseudotuberculosis* has a sensitivity of 2.5 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 9 target copies/reaction and was determined by several replicates around the detection limit. BactoReal® Kit *Corynebacterium pseudotuberculosis* is specific for *Corynebacterium pseudotuberculosis*.

References: Windsor PA. 2011. Control of caseous lymphadenitis. Vet Clin North Am Food Anim Pract. 27:193-202

<p style="text-align: center;">Detection of <i>C. pseudotuberculosis</i></p>	<p style="text-align: center;">Detection of internal positive control CR-3</p>	<p style="text-align: center;">Detection of internal positive control CR-1</p>
<p style="text-align: center;">Amplification Plot</p> 	<p style="text-align: center;">Amplification Plot</p> 	<p style="text-align: center;">Amplification Plot</p> 
<p>ABI Prism® 7500: FAM channel, 530 nm 1:10 serial dilution of <i>C. pseudotuberculosis</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>C. pseudotuberculosis</i> DNA</p>	<p>Mx3005P®: CY5 channel Internal positive control</p>	<p>Mx3005P®: HEX channel Internal positive control</p>
<p style="text-align: center;">Amplification Curves</p> 	<p style="text-align: center;">Amplification Curves</p> 	
<p>LightCycler® 480: FAM channel 1:10 serial dilution of <i>C. pseudotuberculosis</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)