

# BactoReal® Kit *Clostridium perfringens*



For veterinary use only

BactoReal® Kit <i>Clostridium perfringens</i>			
Order no.	Reactions	Pathogen	Internal positive control
DVEB06513	100	FAM channel	Cy5 channel
DVEB06553	50	FAM channel	Cy5 channel
DVEB06511	100	FAM channel	VIC/HEX channel
DVEB06551	50	FAM channel	VIC/HEX channel

## Kit contents:

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

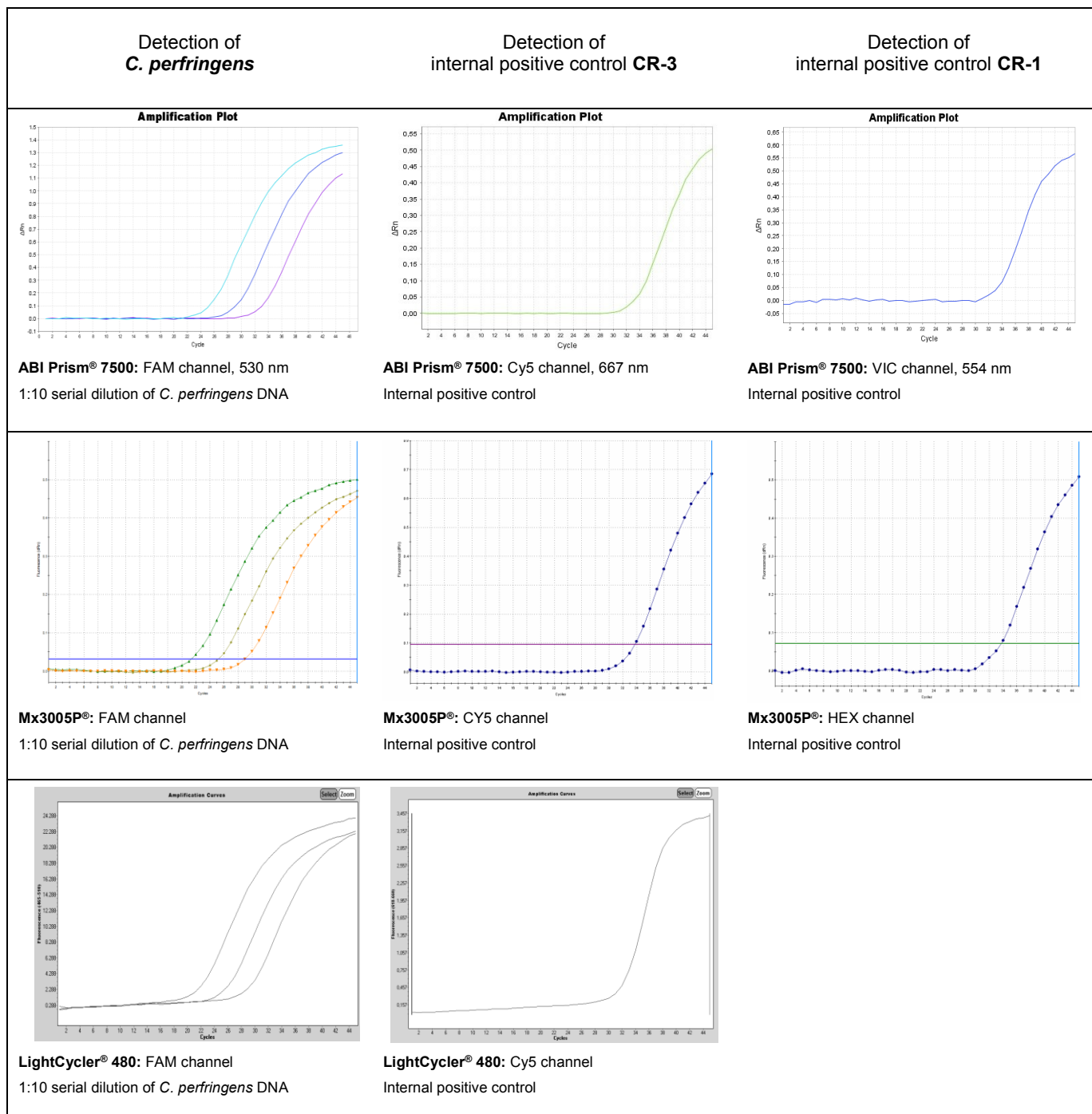


**Background:** *Clostridium perfringens* is a spore-forming gram-positive bacterium present in many environmental sources as well as in the intestines of humans and animals. Under certain predisposing conditions, *Clostridium perfringens* proliferates rapidly, produces toxins and causes disease such as gas gangrene, necrotic enteritis and enterotoxemia. This bacterium is an important cause of food poisoning. Stress and the feed composition are believed to be of major importance for the development of disease. *Clostridium perfringens* strains are classified into five types (A–E) on the basis of their ability to produce the major lethal toxins alpha (cpa), beta (cpb), epsilon (etx), and iota (iap) which give the cytotoxic and necrotic activity associated with infection. In addition, strains of *C. perfringens* may also produce a number of other toxins, including enterotoxin (cpe), beta-2 toxin (cpb2) or theta toxin.

**Description:** BactoReal® Kit *Clostridium perfringens* detects all five serotypes of *C. perfringens* and is based on the amplification and detection of the 16S rRNA gene of *C. perfringens* using real-time PCR. It allows the rapid and sensitive detection and quantification of *Clostridium perfringens* from DNA samples purified from stool, tissue, etc. (e.g. with the QIAamp DNA Mini Kit).

**PCR-platforms:** BactoReal® Kit *Clostridium perfringens* 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:** The analytical sensitivity is approx. 5 target copies/PCR reaction. The kit is specific for *C. perfringens*.



**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))**