

BactoReal[®] Kit Mycoplasma gallisepticum



For veterinary use only

BactoReal [®] Kit <i>Mycoplasma gallisepticum</i>			
Order no.	Reactions	Pathogen	Internal positive control
DVEB00313	100	FAM channel	Cy5 channel
DVEB00353	50	FAM channel	Cy5 channel
DVEB00311	100	FAM channel	VIC/HEX channel
DVEB00351	50	FAM channel	VIC/HEX channel

Kit contents:

- Detection assay for Mycoplasma gallisepticum
- Detection assay for internal positive control (control of amplification)
- DNA reaction mix (contains uracil-N glycosylase, UNG)
- Positive control for M. gallisepticum
- Water



Background: Avian mycoplasmosis is caused by several pathogenic mycoplasmas. *Mycoplasma gallisepticum* and *Mycoplasma synoviae* are the most important avian pathogens. In addition, *Mycoplasma meleagridis* and *Mycoplasma iowae* can also cause disease in poultry, but *Mycoplasma gallisepticum* and *Mycoplasma synoviae* are considered to be the main species of pathogenic mycoplasmas. *Mycoplasma gallisepticum* and *Mycoplasma synoviae* cause chronic respiratory disease (CRD) and infectious synovitis of chickens and turkeys especially in the presence of stresses or other respiratory pathogens, causing economic losses due to decrease in growth rate, loss of weight and reduced egg production.

Description: BactoReal® Kit *Mycoplasma gallisepticum* is based on the amplification and detection of the mgc2 gene (cytadhesin-like protein encoding gene) of *M. gallisepticum* using real-time PCR. It allows the rapid and sensitive detection of the mgc2 gene of *M. gallisepticum* from DNA samples purified from faecal samples, or swabs of tissues, exudates, diluted tissue homogenates, aspirates from the infraorbital sinuses or joint cavities, as well as from material from egg yolk or embryos (e.g. with the QIAamp DNA Mini Kit extraction methods).

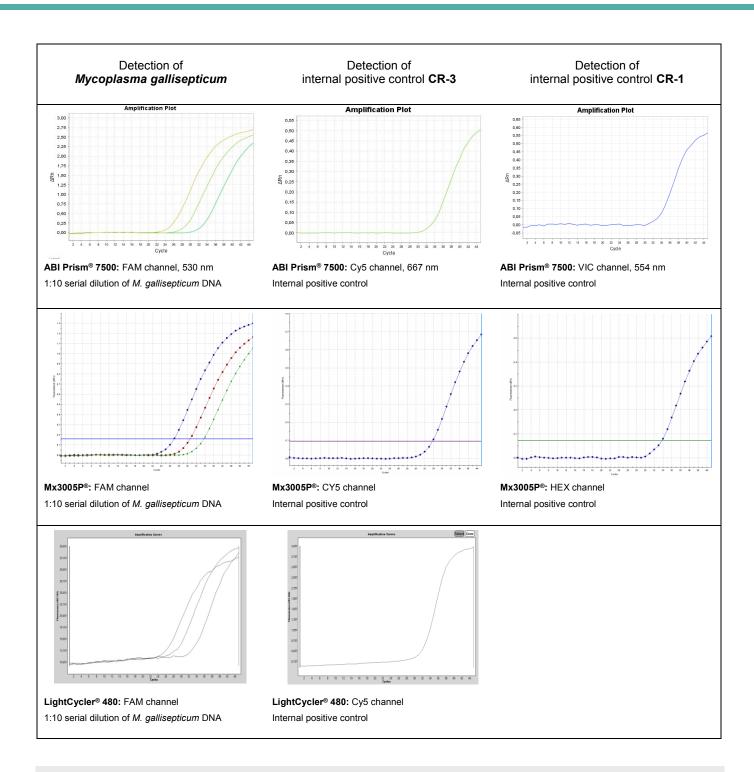
PCR-platforms: BactoReal® Kit *Mycoplasma gallisepticum* is developed and validated for the ABI PRISM® 7500 instrument (Life Technologies), LightCycler® 480 (Roche) and Mx3005P® QPCR System (Agilent), but is also suitable for other real-time PCR instruments.

Sensitivity and specificity: BactoReal® Kit *Mycoplasma gallisepticum* has an analytical sensitivity of 10 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 27 target copies/reaction and was determined by several replicates around the detection limit. The kit is specific for *M. gallisepticum*. Specificity was tested on isolates of *M. meleagridis, M. synoviae* and *M. gallisepticum*. No cross reactions were observed. *Mycoplasma imitans*, a *Mycoplasma* species that is serologically related to *M. gallisepticum* and that presents the same biochemical properties, is not detected by this test. Eight field samples were tested and correctly analysed.

References: Raviv, Z. and S.H. Kleven, 2009. The development of diagnostic Real-Time TaqMan PCRs for the four pathogenic avian mycoplasmas. Avian Dis. 53:103-107.

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)