

BactoReal[®] Kit *Mycobacterium tuberculosis* complex



			For veterinary use only
BactoReal [®] Kit <i>Mycobacterium tuberculosis</i> complex			
Order no.	Reactions	Pathogen	Internal positive control
DVEB02713	100	FAM channel	Cy5 channel
DVEB02753	50	FAM channel	Cy5 channel
DVEB02711	100	FAM channel	VIC/HEX channel
DVEB02751	50	FAM channel	VIC/HEX channel

Kit contents:

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

Background: Tuberculosis in humans is caused by members of the *Mycobacterium tuberculosis* complex (MTBC). The eight closely related species of the MTBC have a wide range of natural hosts, including human hosts (*M. tuberculosis, M. africanum, M. canettii*), bovine hosts (*M. bovis*), caprine hosts (*M. caprae*), rodent hosts (*M. microti*), and pinniped hosts (*M. pinnipedii*). Bovine tuberculosis remains an important disease in many countries of the world, causing significant economic losses.

Description: BactoReal[®] Kit *Mycobacterium tuberculosis* complex is based on the amplification and detection of the ITS2 region of *Mycobacterium* species belonging to the *Mycobacterium tuberculosis* complex (*M. tuberculosis, M. bovis, M. caprae, M. canetti, M. africanum* and *M. microti*) using real-time PCR. It allows the rapid and sensitive detection thereof from DNA samples purified from bronchoalveolar lavage, pleural fluid, nasopharyngeal swab, nasopharyngeal aspirate, liquor, sputum, urine, whole blood, tissue and paraffine blocks (e.g. with the QIAamp DNA Mini Kit extraction methods).

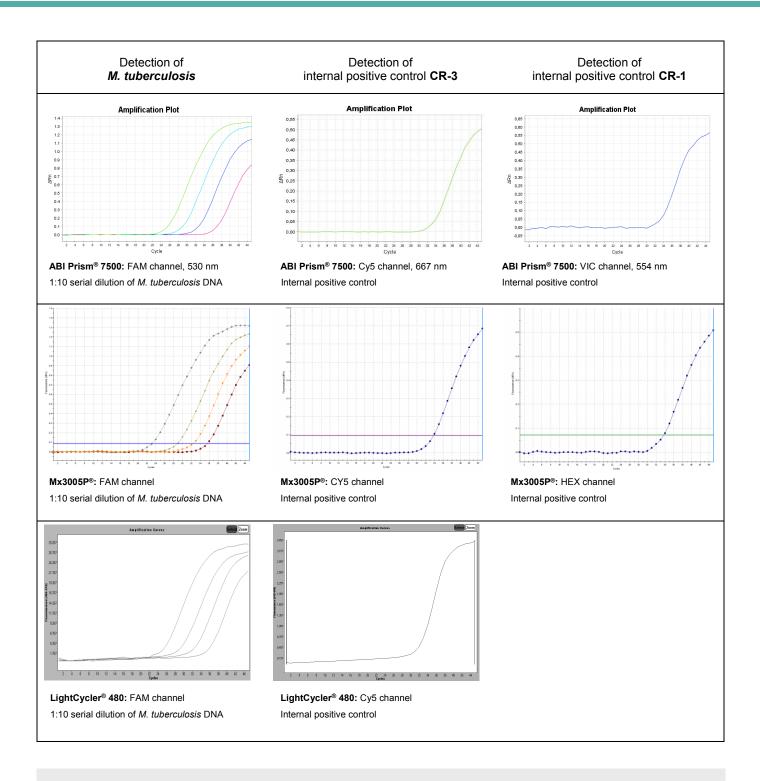
PCR-platforms: BactoReal[®] Kit *Mycobacterium tuberculosis* complex is developed and validated for the ABI PRISM[®] 7500 instrument (Life Technologies), LightCycler[®] 480 (Roche) and Mx3005P[®] QPCR System (Agilent), but is also suitable for other real-time PCR instruments.

Sensitivity and specificity: BactoReal[®] Kit *Mycobacterium tuberculosis* complex has an analytical sensitivity of 5 target copies per PCR and is specific for *Mycobacterium* species belonging to the *Mycobacterium tuberculosis* complex.

References: Tenguria, R.K., Khan F.N., Sadaf Quereshi, S., and Pandey, A. 2011. Epidemiological study of zoonotic tuberculosis complex (ZTBC). World Journal of Science and Technology, 1: 31-56.







BactoReal[®], MycoReal, ParoReal and ViroReal[®] Kits run with the same thermal cycling conditions. RNA and DNA material can be analysed in one PCR run.

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ingenetix GmbH Arsenalstraße 11, 1030 Vienna, Austria T +43(0)1 36 1980 198 F +43(0)1 36 1980 199 office@ingenetix.com www.ingenetix.com BactoReal[®] Kit *Mycobacterium tuberculosis* complex Product description v1.4e