

gb MICRO Mycobacterium tuberculosis

Clinical implications

Mycobacterium tuberculosis is an obligate aerobic acid resistant rod-shaped bacterium which causes most of the cases of tuberculosis. The term *Mycobacterium tuberculosis* complex includes closely related bacteria causing the same clinical symptoms – *M. tuberculosis*, *M. bovis*, *M. africanum*, *M. microti* and *M. canetti*. Tuberculosis still remains a serious infectious disease, namely because of the rising occurrence of antituberculosis drug resistance and because of the increasing

proportion of immunocompromised individuals in the human population, although a sophisticated system of inoculation and prevention exists.

Principle of detection

The kit is intended for detection and DNA quantification of bacteria *Mycobacterium tuberculosis* by **real-time PCR method**.

Available products

Cat. No.	Product	rxn
3221-025	gb MICRO Mycobacterium tuberculosis	25
3221-050	gb MICRO Mycobacterium tuberculosis	50

1 kit contains reagents to provide 25 or 50 PCR reactions (25 µl volume of each reaction).

Parameters of the diagnostic kit

- *in vitro* diagnostics
- CE IVD marked
- ready-to-use assays
- LOD 0.73 copies/µl
- internal positive control, standards and negative control included
- FAM channel detection
- internal positive control in HEX channel

Content of the diagnostic kit

* Component	Conc.	Purpose
● Assay qPCR MYTU	1.67×	Specific assay
● Deionized Water		Negative Control
● Standard 6 MYTU	10 ⁶ cop/µl	Positive Control

* Lid colour



Validated for cyclers

- Rotor-Gene 3000/6000/Q (Corbett Research, Qiagen)
- iCycler iQ5/CFX96/CFX96 Touch (Bio-Rad)
- ABI 7500/7500 Fast/7900HT (Applied Biosystems)
- AriaMx (Agilent Technologies)

