



RealAccurate™

Mycobacterium
tuberculosis PCR Kit



Accurate and rapid detection of Mycobacterium tuberculosis complex

- Directly on clinical specimens
- Based on the multicopy IS6110 insertion element target
- Diagnosis within two hours



Patho Finder

RealAccurate™ Mycobacterium tuberculosis PCR Kit

Overview

The RealAccurate™ Mycobacterium tuberculosis PCR Kit contains primers and a FAM and VIC labeled probe that are designed to detect all members of the Mycobacterium tuberculosis complex. No cross reactivity with atypical Mycobacteria was observed. Designed for rapid results (2 hours) on real-time PCR instruments.



Procedure

RealAccurate™ Mycobacterium tuberculosis PCR kit is a ready to use set of solutions containing two primers and two dual-labeled TaqMan probes. The Mycobacterium tuberculosis probe is labeled at the 5' end with FAM whereas the internal control probe was labeled with VIC. Both probes are labeled at the 3' end with TAMRA (quencher). The PCR mastermix is not included in the kit.

Target genes

The multicopy target IS6110 insertion element of the Mycobacterium tuberculosis complex is used as target in the assay. A modified IS6110 fragment integrated into the chromosome of Mycobacterium smegmatis is added to monitor the efficacy of DNA extraction and PCR efficiency. Both targets are amplified with the same primer pair.

Diagnostic Specimens

The amplification primers and probes are validated for Sputa (decontaminated as well as untreated), and Bronchoalveolar lavage (BAL).

Internal control

A Mycobacterium smegmatis strain containing a modified IS6110 fragment into the chromosome serves as an effective internal control.

Positive control

Mycobacterium bovis BCG DNA.

Reference

Savelkoul et al (2006), Detection of Mycobacterium tuberculosis complex with Real Time PCR: Comparison of different primer-probe sets based on the IS6110 element. J. Microbiological Methods, 66, 177-180.

Applications

The RealAccurate™ Mycobacterium tuberculosis PCR Kit can be performed on real time cycles, including ABI PRISM 7000, 7500 and 7700, LightCycler 1.0 and 2.0 and Rotor-Gene 3000 and 6000.

Distributed by



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