

# Product Information

MYCO<sup>Direct</sup> 1.7

LCD-Array Kit



For Research Use Only [RUO]

Identification of Mycobacterium tuberculosis Complex (MTUB) and Mycobacteria other than tuberculosis (MOTT)



Technology for your daily routine.

## Assay Principle

Using the provided primer mixes, biotinylated PCR products are generated from sample material containing extracted bacterial DNA. The labeled amplicons are hybridized to species specific capture probes immobilized on the LCD-Chip surface. Following a short wash routine, comprising high stringency, visualization of bound amplicons is mediated by an enzyme-substrate cascade. Each LCD-Chip contains eight identical micro arrays separated in small reaction chambers which can be addressed individually.

## Target Region & Sensitivity

Primer mix A is directed against highly conserved motifs flanking the internal transcribed spacer region of the 16S\_rRNA gene cluster. Specific capture probes immobilized as duplicates permit the simultaneous identification of the 16 '*Mycobacteria* Other Than Tuberculosis' (MOTT). Primer mix B, directed against the insertion sequence IS6110, guarantees excellent sensitivity for the identification of all members of the 'Tuberculosis Complex' (MTC). Detection limits are 50 genome equivalents (GE) per reaction for MOTT and 1 GE for MTC. Due to the small amplicon sizes (127 bp and 200-300 bp) the assay is very well suited for the analysis of FFPE tissue sections.



A: Detection of Mycobacterium tuberculosis Complex





B: Detection of Mycobacterium avium

## Software

#### SlideReader V12

- Fully automated image analysis
- Data reports in PDF formatWin XP & WIN7 compatible



### Instruments

CHIP-Scanner PF7250u



- Transmission light scanner for LCD-Arrays,
- 10 µm resolution

#### CHIP Spin FVL2400



- Bench Top mini centrifuge
- 2400 rpm, constant
- Adaptor for LCD-Arrays

Order Information	Cat. Nº.
MYCO 1.7 LCD-Array Kit, 32 Tests	B-500-04
MYCO 1.7 LCD-Array Kit, 96 Tests	B-500-12
CHIP-Scanner PF7250u	HS-500-01
CHIP-Spin FVL2400	HS-300-01
SlideReader Software	HS-200-01

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