



MTBC-NTM Real Time PCR kit

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A complete solution tailored to your needs

The MTBC-NTM REAL TIME PCR kit is a multiplex in vitro diagnostic kit that can simultaneously detect the *Mycobacterium tuberculosis* species, the *Mycobacterium tuberculosis* complex (MTBC), while also detecting other non-tuberculous mycobacteria (NTM) that cause similar respiratory diseases to tuberculosis. It works with human clinical samples from different sources, e.g. sputum, bronchial lavages and cell cultures.

The ability to use the MTBC-NTM REAL TIME PCR KIT to perform primary screening of these characteristics means that it can be used as an aid in diagnosing this infection in combination with clinical and epidemiological risk factors.



Single master mix ready for use



DNA extracted from human clinical samples from different sources, e.g. sputum, bronchial lavages and cell cultures



Mycobacterium genus, *Mycobacterium tuberculosis* complex and *Mycobacterium tuberculosis* species detection sensitivity at 1 copy per reaction



Can be fully automated



UNG enzyme incorporated to prevent contamination



Open system compatible with most thermocyclers on the market

Composition of the kit

Single master mix. Positive and negative control. The mix includes internal control primers/probes to validate human samples, making it possible to detect incorrect sampling or sample degradation. In order to prevent contamination with previous PCR products, the mix contains the Uracil-DNA glycosylase enzyme (Cod UNG), which degrades PCR products containing dUTP.

Targets

TARGET	CHANNEL
Mycobacterium ssp	Cy5
MTBC	ROX
Mycobacterium tuberculosis	FAM
beta-globin	HEX/JOE/VIC

Compatible systems

EXTRACTION SYSTEMS

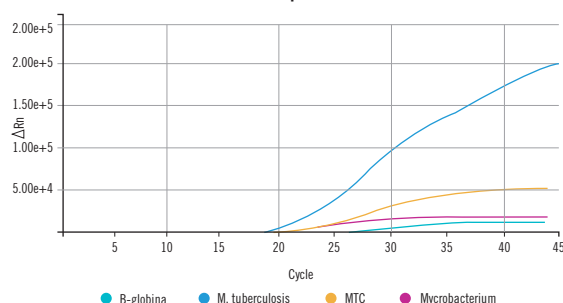
- Molecular Automated Integral Solution (MAIS)
- MagCore® HF16 Plus System

REAL-TIME PCR THERMOCYCLERS

- QuantStudio 5™ Real Time PCR System Applied Biosystems
- CFX96™ Real Time PCR Detection System (Bio Rad)
- Vitrocyler (Vitro S.A.)

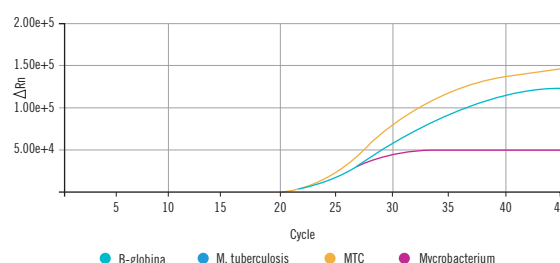
Interpretation of results

Plot amplification



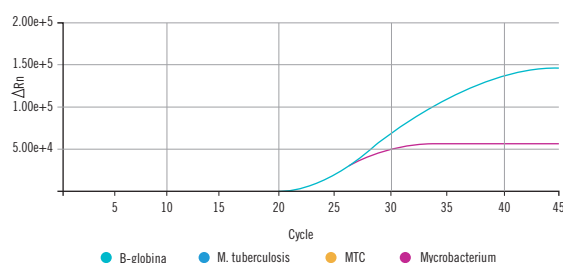
Mycobacterium tuberculosis

Plot amplification



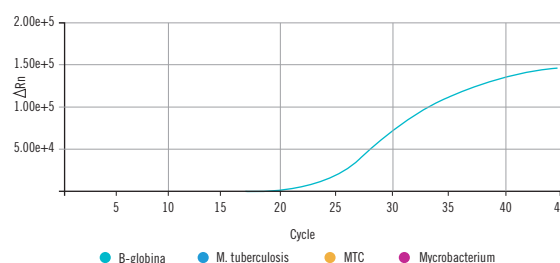
Mycobacterium tuberculosis complex

Plot amplification



non-tuberculous mycobacteria (NTM)

Plot amplification



Negative sample

REFERENCE

MAD-003963M-W

DESCRIPTION

MTBC-NTM Real Time PCR kit

FORMAT

100 test



www.vitro.bio

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