

MYCOBACTERIUM REALTIME PCR KIT

Real-time PCR multiplex kit for the detection of nucleic acids from *Mycobacterium* tuberculosis complex (MTBC), *Mycobacterium* avium complex (MAC), *Mycobacterium* abscessus complex (MABSC), and other non-tuberculous mycobacteria (NTM) in human sputum samples.

- 5 targets Multiplex PCR one single reaction tube per sample.
- Endogenous human control for monitoring the carry-over of amplification inhibitors, sample DNA integrity and the correct amplification set-up.
- Suitable for **5-channel qPCR cyclers**: FAM, HEX (VIC), Q705 (Cy5.5), Texas Red (ROX) and Cy5.
- Fast and reliable results in under 2 hours.
- Lyophilized master mix and positive control to ensure stability and reduce transportation costs.
- **Different kit presentations** for greater user convenience: pre-dispensed divisible plate and strips.





TB OR NOT TB? Multiplex molecular solution

Why is this kit clinically relevant?

Mycobacteria are resilient bacteria due to their unique cell wall structure, making them highly resistant to environmental stress and certain antibiotics. While Mycobacterium tuberculosis causes tuberculosis (TB), nontuberculous mycobacteria (NTM) are responsible for chronic lung infections, especially in immunocompromised individuals and those with cystic fibrosis.

NTM incidence is rising globally, particularly in high-income regions, with Mycobacterium avium complex (MAC), M. abscessus complex (MABSC), M. kansasii, and M. intracellulare being the most common species.

- In some countries, NTM infections are more prevalent than tuberculosis.1,2
- Conventional rapid diagnostic methods such as smear microscopy struggle to differentiate TB from NTM, leading to delays in treatment.3
- · Proper identification of MAC and MABSC is essential for effective treatment and epidemiological control.4

More TB diagnosis with VIRPLEX

Complements the solution for the diagnosis of tuberculosis:

MTBC Species Real-Time PCR Kit

- Multiplex PCR detecting 7 different subespecies from the MTB complex in two reaction tubes per sample (M. tuberculosis, M. africanum, M. microti, M. caprae, M. bovis, M. bovis BCG and M. canettii). It can be used in culture isolates or smear positive samples.
- · Lyophilized format for improved stability and reduced shipping costs.

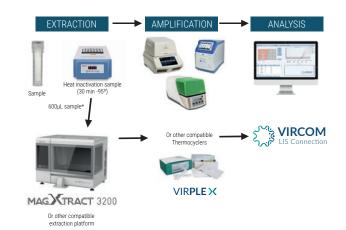
Kit performance

	Sensitivity	No. of samples	
Mycobacterium abscessus complex	100%	100%	101
Mycobacterium avium complex	100%	100%	100
Mycobacterium tuberculosis complex	100%	100%	109
Non-tuberculous mycobacterium	98%	100%	102

Integration with laboratory workflow

To ensure an efficient and complete diagnostic process, VIRPLEX kits integrate with the following solutions:

- Extraction with MagXtract, optimizing process efficiency and accuracy. Manual extraction or other automated extraction are compatible.
- · Amplification and detection with CFX / Azure or other compatible thermal cyclers.
- · Automated data analysis with VIRCOM, which facilitates the interpretation of results and streamlines decision making.



Information and related products

Description	Class	Reference	Content
MYCOBACTERIUM REALTIME PCR KIT	CE ₀₁₂₃ IVDR	RTPCR016-LP	24 tests
MYCOBACTERIUM REALTIME PCR KIT	CE ₀₁₂₃ IVDR	RTPCR016-LPD	96 tests
MTBC SPECIES REALTIME PCR KIT	RUO	RTCPCR022-LP-R	24 tests
AMPLIRUN® MYCOBACTERIUM AVIUM DNA CONTROL	RUO	MBC086-R	1 vial
AMPLIRUN® MYCOBACTERIUM TUBERCULOSIS DNA CONTROL	CE ₀₁₂₃ IVDR	MBC034	1 vial
AMPLIRUN® TOTAL MDR-TB VERIFICATION & CONTROL PANEL (SPUTUM)	CE	MBTC027	10 vials

