

Easy and Fast



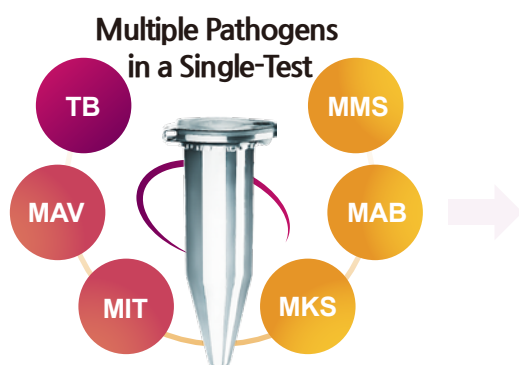
NeoPlex™ TB/NTM-5 Detection

CE-IVD Marked

Tuberculosis is one of the most world's threatening infectious diseases caused by **Mycobacterium tuberculosis (TB)** with high morbidity and mortality. **Non-tuberculosis mycobacteria (NTM)** infections, particularly with clinically relevant NTM species, are increasing in countries with low TB prevalence. Since therapeutic regimens are chosen according to the respective mycobacteria species, the reliable identification of TB and NTM is crucial for the treatment and prevention measures.

NeoPlex™ TB/NTM-5 Detection Kit is a multiplex real-time PCR assay that can detect TB and 5 pathogenic NTM in a single tube test by Genematrix's patented C-Tag™ technology, enabling your diagnosis more efficient with higher clinical performance.

Simultaneous Detection of TB and 5 NTM



TB	Mycobacterium tuberculosis
NTM	M. avium (MAV) M. intracellulare (MIT) M. kansasii (MKS) M. abscessus (MAB) M. massiliense (MMS)

Key Features

- **Single-Tube Multiplex Real-time PCR Assay**
 - Simultaneous detection and differentiation of TB and 5 NTM species in a single-tube assay
- **High Inclusivity**
 - Detection of 7 species of *M. tuberculosis* complex (MTBC)
 - Detection of 5 pathogenic NTM and other *Mycobacterium* species
- **Superior Clinical Performance**
 - Precise identification of *M. avium-intracellulare* complex (MAC)
 - Differentiation between *M. abscessus* and *M. massiliense*

Specimens

- Sputum

Compatible Instruments

- CFX96™ Dx System (Bio-Rad)
- Automatic nucleic acid extraction equipment

Clinical Benefits

TB/NTM identification for individualized antibiotic treatment

2020 ATS/ERS/ESCMID/IDSA Clinical Practice Guideline
2020 WHO consolidated guidelines on tuberculosis

Mycobacterium Species	Treatment
TB	Isoniazid, Rifampin
MAV · MIT	Macrolide, Rifampin or Ethambutol
MKS	Isoniazid, Rifampin, Ethambutol
MAB	Macrolide ^R , Amikacin, Cefoxitin, Imipenem
MMS	Macrolide

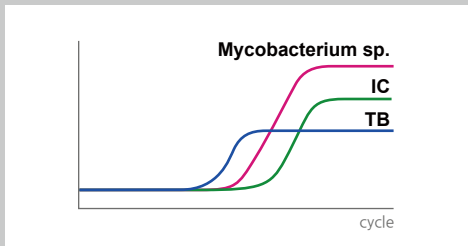
^R Drug-resistance

Result Analysis

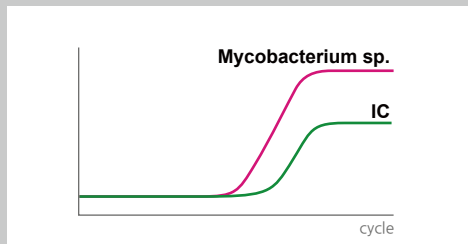
Quantitative detection of TB and NTM by amplification analysis [Ct value]

Identification of 5 NTM species by melting curve analysis [Tm value]

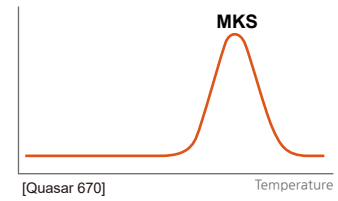
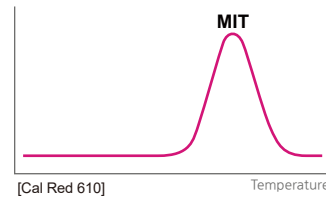
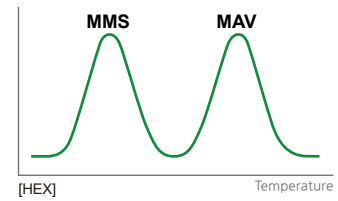
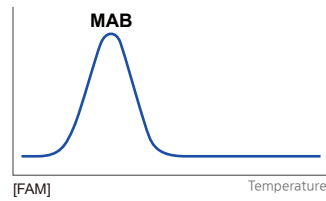
Ct Value : TB



Ct Value : NTM



Melting Temperature (Tm) : 5 NTM



Ease of Use

- Whole process monitoring with endogenous internal control
- UDG System to prevent carry-over contamination
- Automated analysis with NeoPlex™ viewer software
- Within 2 hours analysis from automated nucleic acid extraction to result analysis

NeoPlex™ Viewer



- Result report by automatic analysis
- Confirm the result of raw data analysis
- Rapid check of positivity and negativity
- Compatible with LIS
- Print out the result
- Export and download in various formats :
[.xlsx] [.CSV] [.pdf]

Ordering Information

Cat No.	Product	Description	Method	Size
NR15A	NeoPlex™ TB/NTM-5 Detection	Simultaneous Detection of M. tuberculosis and 5 Non-tuberculosis Mycobacteria in a Single-Test	Multiplex Real-Time PCR	96 Tests/Kit

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