

PowerChek™ MTB/NTM Real-time PCR Kit series  · MFDS(KFDA) approved

TB/NTM Detection by Real-time PCR



**Quick & Accurate Total Solution System for TB/NTM
from Extraction to Detection**

Simple & Accurate Testing for TB vs. NTM

The differentiation of Mycobacterium tuberculosis (TB) from nontuberculous mycobacteria (NTM) is of primary importance for infection control and choice of antimicrobial therapy.

PowerChek™ MTB/NTM Real-time PCR Kit is designed to simultaneously detect the specific genes for TB and NTM using multiplex Real-time PCR assay. The kit targets the TB complex-specific IS6110 gene and ITS, 16s rDNA region of mycobacterium. Therefore, the product allows for the qualitative detection and discrimination of TB and NTM directly in clinical sample and culture.

M. Bates, et al. *Burden respiratory tract infections at post mortem in Zambian children*. BMC Medicine 2016 14:99



PowerChek™ MTB/NTM Real-time PCR Kit :

- Total solution from extraction to detection
- High sensitivity & specificity
- Includes all necessary reagents
- Time to results : 100 mins
- Easy to use
- Compatible open system

Total Solution Kits components : from Extraction to Detection

Part 1. DNA Extraction	Part 2. Real-time PCR
Sol 1 (10X)	2X Real-time PCR Master Mix
Sol 2 (10X)	Primer/Probe Mix
Extraction Buffer	Control DNA

Compatibility - Flexible Open System

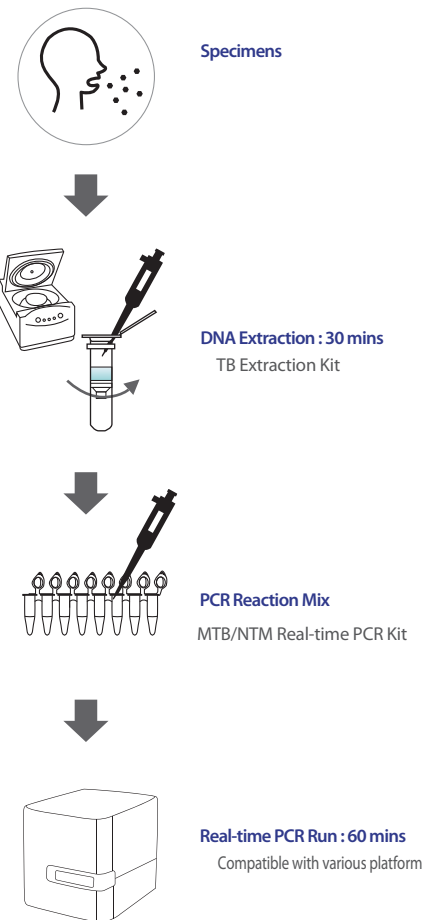
	Thermo Fisher Scientific	BioRad	Roche	Agilent	Qiagen
	ABI®7500	CFX96	LC®480	Mx3005P	Rotor-Gene Q
MTB / NTM	●	●	●	●	●

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Ordering Information

Cat No.	Product	Size	Analyte	Fluorophore
R0120	PowerChek™ MTB/NTM Real-time PCR Kit	100	<ul style="list-style-type: none"> ▪ ITS ▪ IS6110 ▪ Internal control 	<ul style="list-style-type: none"> ▪ FAM ▪ VIC(HEX) ▪ Cy5
Cat No.	Nucleic acid extraction	Size	Sample matrix	
E0104	PowerPrep™ TB Extraction Kit	100	<ul style="list-style-type: none"> ▪ Sputum ▪ Bronchial wash ▪ Bronchoalveolar lavage 	

Work Flow



Clinical Performance

PowerChek™ MTB/NTM Real-time PCR Kit		Sensitivity (Positive)		Specificity (Negative)	
Analyte	Samples (n)	Ratio	(%)	Ratio	(%)
TB	473	107/116	92.3	354/357	99.2
NTM	473	66/68	97.1	403/405	99.3