

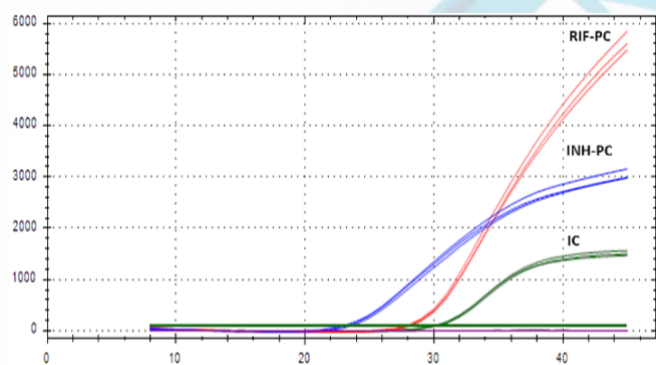


# LyteStar™ TB-MDR Kit

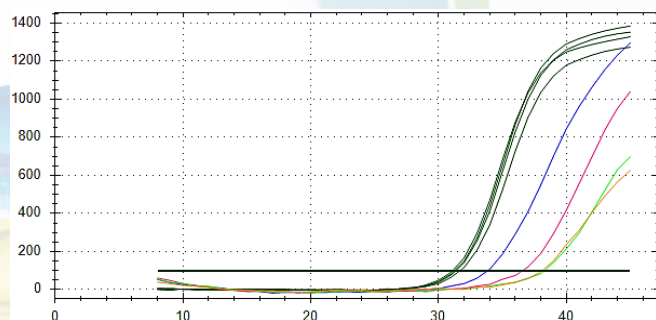
Specific detection of Rifampicin- and Isoniazid-resistant *M. tuberculosis*

The LyteStar™ TB-MDR PCR Kit is a dual-tube assay for the specific detection and differentiation of Rifampicin (*rpoB* gene) and Isoniazid resistance markers (*katG* and *inhA* genes) in *Mycobacterium tuberculosis* from a broad range of specimens.

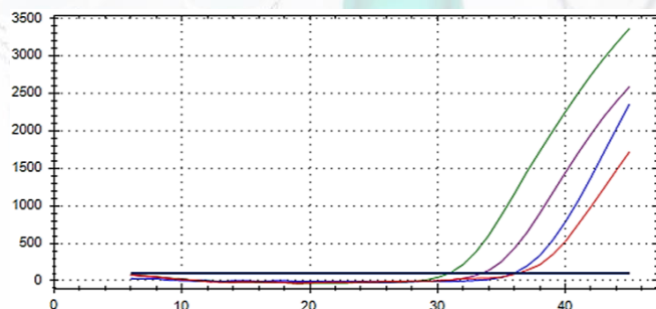
The LyteStar™ TB-MDR PCR Kit utilizes a harmonized PCR cycling profile and can be run concurrently with the LyteStar™ TB/NTM kit.



Detection on CFX96 – RIF PC, INH PC, IC



Tube 1 - RIF-resistant: 200, 63.3, 20, 6.3 copies/μl and IC



Tube 2 - INH-resistant: 350, 221, 111, 35.1 copies/μl

## Specifications and Features

- **Dual Tube Assay** for Detection and Differentiation:
  - RIF-resistant specific; *rpoB* genes
  - INH-resistant specific; *katG* and *inhA* genes
  - Internal Control (IC); heterologous DNA
- **Highest Analytical Sensitivity**
  - 18.01 cp/μl for RIF-resistant *rpoB* gene
  - 36.98 cp/μl for INH-resistant *katG* gene
  - 116.03 cp/μl for INH-resistant *inhA* genes
- **100% Analytical Specificity**; no cross reactivity with other pathogens
- **Broad range of validated sample materials:**

The LyteStar™ TB-MDR PCR Kit has been validated with sputum, bronchial lavage, CSF, urine, tissue, body fluids and EDTA-blood
- Validated for use on real-time PCR systems: Rotor-Gene Q (Qiagen), CFX Opus 96 and CFX96 (BioRad), Mic (BioMolecular Systems), ABI Prism 7500 SDS and QuantStudio5 (Applied Biosystems)
- **MDA Reg. No. IVDC8961526-240494**



## Recommended Sample Preparation

### LyteStar™ TB/NTM PCR Kit 3.1 – Extraction Reagents

The LyteStar™ TB/NTM PCR Kit 3.1 – Extraction Reagents include components for the pretreatment of specimens prior to extraction as well as reagents for the purification of mycobacterial DNA from sputum, bronchial washings, cerebrospinal fluid, urine and body fluids, and EDTA whole blood. The extracted DNA is ready to use for analysis by the LyteStar™ TB-MDR PCR Kit 1.0 detection reagents. As an alternative silica column-based extraction, the SpinStar™ Total DNA Kit 2.0 has been validated.



## Order Information

| Product                                 | Content                                                                                                                                                          | Σ   | Cat. No. |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|
| LyteStar™ TB-MDR PCR Kit 1.0            | Master A, Master B, Positive Control (PC), Internal Control (IC), PCR-grade Water                                                                                | 96  | 870003   |
| LyteStar™ TB/NTM PCR Kit 3.1            | Master A, Master B, Positive Control (PC), Internal Control (IC), PCR-grade Water, Extraction Buffer, Pre-Treatment Solution 1, Pre-treatment Solution 2         | 96  | 883103   |
| SpinStar™ Total DNA Acid Extraction Kit | SpinStar™ Columns, Collection Tubes, Tissue Lysis Buffer, Lysis Enhancer, Genomic DNA Binding Buffer, Wash Buffer 1, Wash Buffer 2, Proteinase K, Elution Buffer | 100 | 821803   |

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