

WB Mycobacterium tuberculosis Multi-Drug Resistance Detection (MDR) Reagents

OUR CERTIFICATIONS

Our certifications

- ✓ ISO 13486:2016 certified
- ✓ ISO 9001: 2015 certified
- ✓ DPIIT (Govt. of India) certified
- ✓ Institutional Biosafety Committee (DBT)
- ✓ MSME Registered
- ✓ Trademark Registered with Trade Mark, Registry, Govt. of India

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GRANTS/AWARDS

- ✓ Biotechnology Ignition Grant Award-2013
- ✓ Grand Challenge-TB Control - Bill and Melinda Gates Foundation | USAID | BIRAC, Govt. of India Phase-1 Grant - 2015;
- ✓ Grand Challenge-TB Control - Bill and Melinda Gates Foundation | USAID | BIRAC, Govt. of India Phase 2 Grant- 2017
- ✓ Grand Challenge Explorations- Bill and Melinda Gates Foundation | USAID | BIRAC, Govt. of India Grant- 2017
- ✓ DBS-NUS Social Venture Challenge Asia 2017 Finalist.
- ✓ BIRAC (Dept. of Biotechnology) Pre-Accelerator MedTech Challenge Grant-2021
- ✓ Fastest Growing Indian Company Award (2019) – International Achievers Conference, Bangkok

INTRODUCTION

- Tuberculosis remains a major global health problem and ranks as the second leading cause of death from an infectious disease worldwide, after HIV. It is the first infectious disease declared by the World Health Organization (WHO) as a global health emergency
- WobbleBase MTB Drug Resistant RT-PCR Detection Kit is designed for accurate identification of Mycobacterium tuberculosis complex (MTBC) along with Rifampicin and Isoniazid resistance/susceptible status from various sources of clinical samples using Real-time PCR.
- We provide a reliable solution for swiftly identifying MDR and XDR strains, empowering healthcare professionals to make informed treatment decisions swiftly.

KEY FEATURES

- Takes advantage of the “hot start” technology to minimize non-specific reactions and assuring maximum sensitivity & specificity.
- Validated on pulmonary & various extra pulmonary samples.
- Assay is compatible with various Real-time PCR instruments.
- Cost effective and rapid test

SPECIFICATIONS

Technology	Real-Time PCR with hydrolysis probes
Type of Analysis	Qualitative; Analytical
Target Sequence	rpoB gene- codon- 516 (D516V), 526 (H526Y & H526D), 531 (S531L) kat G gene- codon 315 (S315T1 & S315T2) inhA gene- (C15T, A16 G, T8C & T8A)
Analytical Specificity	Mycobacterium tuberculosis complex, 100 %
Analytical Sensitivity (LoD with probability 95 %)	500 copies/ml using Wobble Base M. tuberculosis DNA Extraction Kit
Reporting Units	cp/ml

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- ✓ Small Business Innovation Research Initiative (SBIRI) (2013) – Dept. of Science and Tech., Govt. of India.
- ✓ TATA Health Fund (Phase 1 - Biosafety) – 2024

Controls	Inhibition and extraction control, negative control, positive control
Validated specimen	Sputum, swab, urine, CSF
Storage	-20 ± 5 °C
Required detection channels	FAM, HEX(VIC), TAMRA, Cy5
Instrument	Compatible with a wide range of real-time PCR device

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CATALOG NUMBER	PRODUCT INFORMATION	CONTENTS
MTBDR/WBB/25	MTB Drug Resistant RT-PCR Detection Kit	25 reactions
MTBDR/WBB/100	WB Quantitative Human cytomegalovirus Real-Time PCR Detection kit	100 reactions