Wobble Base®
BioResearch

WB Mycobacterium tuberculosis Detection Reagents [Conventional PCR amplification and gel electrophoresis technique]

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

CONTACT

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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) –

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.
- The conventional identification of MTB isolates by culture and phenotypic characterization is widely used but it takes 4 to 6 weeks or longer as for slow growing species. Molecular genetic approaches for M. tuberculosis identification directly from clinical samples or on cultured isolates are preferred because of their high sensitivity and specificity, as well as rapid processing time.
- Designed with precision and ease of use in mind, our kit empowers researchers and clinicians to accurately detect the presence of this notorious pathogen with confidence. Leveraging the gold-standard method of PCR amplification and agarose gel electrophoresis, our solution ensures sensitive and specific identification of M. tuberculosis DNA, enabling timely diagnosis and effective management of tuberculosis infections.

KEY FEATURES

- High sensitive and specific for detection of mycobacterium tuberculosis
- Cost effective and rapid test
- Simple reaction setup and data interpretation
- It is a rapid, more reliable and extremely accurate test

SPECIFICATIONS

Technology	Conventional PCR amplification and gel electrophoresis technique

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International Achievers Conference, Bangkok

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

Your thinking partner in science

Type of Analysis	Qualitative
Target Sequence	Specific DNA sequence of Multi-copy insertion sequence IS6110
Analytical Specificity	Mycobacterium tuberculosis complex, 100 %
Analytical Sensitivity (LoD with probability 95 %)	100 cp/µl using Wobble Base manual extraction DNA Nucleic Acid Kit
Reporting Units	MTB DNA detected, not detected or inconclusive
Controls	Inhibition and extraction control, negative control, positive controll
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 conventional PCR device

CATALOG NUMBER	PRODUCT INFORMATION	CONTENTS
MTBDR/WBB/25	Mycobacterium tuberculosis Detection kit	25 reactions
MTBDR/WBB/100	Mycobacterium tuberculosis Detection kit	100 reactions