

WB *Mycobacterium tuberculosis* Quantitative and Diagnostic RT-PCR Detection Kit [Fluorescent Probe based]

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

PHONE:
+91-6353339602

WEBSITE:
Wobblebase.in

EMAIL:
support@wobblebase.in

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
- ✓ Small Business Innovation Research Initiative (SBIRI) (2013) – Dept. of Science and Tech., Govt. of India.

INTRODUCTION

- *Mycobacterium tuberculosis* virus (TB) is a pathogenic bacterium that causes tuberculosis. It is likely to infect all human tissues and organs, especially the lungs to cause pulmonary tuberculosis. Early diagnosis and treatment are important for effective control of tuberculosis.
- WobbleBase MTB Real-time PCR Kit is an in vitro nucleic acid amplification kit for the detection and quantification of *Mycobacterium tuberculosis* [MTB complex] specific DNA.
- MTB Real-time PCR Kit constitutes a ready-to-use system for the detection of MTB specific DNA using polymerase chain reaction (PCR).
- It contains reagents and enzymes for the specific amplification of the conserved region of the MTB genome, and for the direct detection of the specific amplicon in the FAM channel.
- External positive control is supplied, which can be used as both qualitative and quantitative to determine the amount of pathogen.
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KEY FEATURES

- High sensitive and specific for detection of mycobacterium tuberculosis complex (MTC)
- Includes all the reagents required to perform sample to Result analysis
- Inclusion of positive and negative controls for quality check
- Inclusion of internal control gene to assess the PCR inhibition
- Cost effective and rapid test
- Low contamination risk – no post-PCR product handling

SPECIFICATIONS

Technology	Real-Time PCR with hydrolysis probes
Type of Analysis	Qualitative and quantitative

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✓ TATA Health Fund (Phase 1 - Biosafety) – 2024

Your thinking
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science

Target Sequence	Specific DNA sequence of Multi-copy insertion sequence IS6110
Analytical Specificity	Mycobacterium tuberculosis complex, 100 %
Analytical Sensitivity (LoD with probability 95 %)	100 copies/ml using Wobble Base manual extraction DNA Nucleic Acid Kit
Reporting Units	cp/ml
Conversion Factor	1 IU = 1 COPY
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)
Instrument	Compatible with a wide range of real-time PCR device

CATALOG NUMBER	PRODUCT INFORMATION	Content
MTBQ/WBB/25	WB Mycobacterium tuberculosis Quantitative Real-time PCR Kit	25 Reactions
MTBQ/WBB/100	WB Mycobacterium tuberculosis Quantitative Real-time PCR Kit	100 Reactions
MTBD/WBB/25	WB Mycobacterium tuberculosis Diagnostic MTB Real-time PCR Kit	25 Reactions
MTBD/WBB/100	WB Mycobacterium tuberculosis Diagnostic MTB Real-time PCR Kit	100 Reactions