

## WB Quantitative and Diagnostic Kit for BCR-ABL1 Fusion Gene Real-time PCR

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

### INTRODUCTION

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- WobbleBase BCR-ABL Quantitative and Diagnostic Real-Time PCR Testing Kit is an RT-qPCR test for the quantitative detection of BCR-ABL fusion transcripts in bone marrow or peripheral blood samples.
- The kit provides an advantage by detecting, differentiating and quantifying all the three breakpoint cluster regions i.e. major/P210 (M-bcr), minor/P190 (m-bcr) and micro/P230 (mu-bcr) in separate tubes, making it one of the most unique and comprehensive solution currently available.
- It is a two-step protocol in which total RNA from a patient's peripheral blood or bone marrow is isolated, the RT enzyme reverse transcribed total RNA and yields single-stranded cDNA.
- This is followed with real-time quantitative PCR amplification and quantification of BCR-ABL fusion transcripts and the ABL transcript. Three independent RT-qPCR reactions are performed to detect all the known fusion transcripts in separate tubes to differentiate, quantitate and report individual transcripts.

### KEY FEATURES

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- **Unmatched Accuracy:** Say goodbye to uncertainty! Our kit offers unparalleled precision in detecting BCR-ABL1 fusion genes, ensuring reliable results every time.
- **Rapid Turnaround Time:** Time is of the essence in diagnostics. With our efficient real-time PCR platform, you'll get swift results, enabling prompt decision-making for patient care.
- **Streamlined Workflow:** Simplify your laboratory processes with our user-friendly kit. Designed for seamless integration into your workflow, it minimizes hands-on time and maximizes efficiency.
- **Superior Sensitivity:** Don't miss a single mutation! Our kit's sensitivity enables detection of even low-level BCR-ABL1 fusion genes, empowering you to catch abnormalities early on.
- **Robust Performance:** Trust in reliability! Our kit undergoes rigorous testing to ensure consistent and dependable performance, giving you confidence in your diagnostic outcomes.

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

- Comprehensive Support: From installation to interpretation, our dedicated support team is here for you every step of the way. Count on us for comprehensive assistance and training.

Your thinking  
partner in  
science

### SPECIFICATIONS

Technology	Real-Time PCR with hydrolysis probes
Target Sequence	The breakpoint on chromosome 22 between exons 12 and 16 of the BCR gene (MbcR) and the breakpoint on chromosome 9 between exons 1 and 2 of the ABL gene (P210)
Analytical Specificity	100 %
Analytical Sensitivity (LoD with probability 95 %)	0.98 copies/μl using Wobble Base manual extraction Viral DNA Nucleic Acid Kit
Diagnostic Specificity	100.00%
Diagnostic Sensitivity	~1 tumor cell in 100,000 normal cells
Linear Range	1.00E+09 to 1.00E+00 copies/μl
Dynamic Range	10 <sup>10</sup> – LoD IU/ml (LoD varying according to the extraction and material used)
Reporting Units	Normalized ratio of BCR/ABL1 (p210) to endogenous ABL1 mRNA with conversion to a percentage referenced to the international scale (IS)
Conversion Factor	1.25
Controls	Inhibition and extraction control, negative control, positive control
Validated specimen	Whole blood (EDTA)
Storage	-20 ± 5 °C
Required detection channels	FAM, HEX(VIC)
Instrument	Compatible with a wide range of real-time PCR device

## WB Quantitative and Diagnostic Kit for BCR-ABL1 Fusion Gene Real-time PCR

CATALOG NUMBER	PRODUCT INFORMATION	CONTENTS
BCRABL1Q/WBB/50	WB Quantitative and Diagnostic Kit for BCR-ABL1 Fusion Gene Real-time PCR	BCRABL1Q/WBB/50
BCRABL1Q/WBB/100	WB Quantitative and Diagnostic Kit for BCR-ABL1 Fusion Gene Real-time PCR	BCRABL1Q/WBB/100
BCRABL1D/WBB/50	WB Quantitative and Diagnostic Kit for BCR-ABL1 Fusion Gene Real-time PCR	BCRABL1D/WBB/50
BCRABL1D/WBB/100	WB Quantitative and Diagnostic Kit for BCR-ABL1 Fusion Gene Real-time PCR	BCRABL1D/WBB/100