

## WB HIV Type 1 Proviral DNA Diagnostic PCR (Convectonal nested PCR kit)

### 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

- HIV is a retrovirus or a RNA virus. When this virus enters the human cells its RNA gets converted to DNA forming a provirus .Thus this test is used to detect this proviral DNA form of HIV virus.
- The detection of HIV proviral DNA is based on end-point PCR technology, utilizing polymerase chain reaction (PCR) for the amplification of specific HIV proviral DNA sequences. For analysis of the PCR data, the PCR reaction is loaded on an agarose DNA gel along with the provided DNA marker for qualitative analysis.
- WobbleBase HIV Proviral DNA PCR Kit is a test, based on the use of end-point PCR technology, for the detection of HIV proviral DNA. The kit includes Master Mix and primers for the specific amplification of a 142 bp region of the HIV proviral DNA.

### KEY FEATURES

- This kit offers unparalleled accuracy in identifying HIV-1 proviral DNA, enabling swift and efficient diagnosis along with differentiation of C and "non-C" subtypes
- User-friendly protocols and optimized reagents
- Nested PCR technology amplifies target DNA sequences with unparalleled sensitivity; ensuring even minute amounts of HIV-1 proviral DNA are detected with confidence.
- High sensitivity & accuracy
- Available in different pack sizes
- Reliable and cost effective.

### SPECIFICATIONS

Technology	Conventional nested PCR amplification and gel electrophoresis technique
Type of Analysis	Qualitative
Target Sequence	Specific conservative DNA sequence of Integrated HIV-1 proviral DNA
Analytical Specificity	Detection of all sub types and specific identification of sub type C in human EDTA Blood, 100 %
Analytical Sensitivity	50 copies/mL

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

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science*

(LoD with probability 95 %)	
Diagnostic Specificity	99.6% (95% CI; 97.9 to 100%)
Diagnostic Sensitivity	98.3% (95% CI; 91.1 to 99.9%)
Linear Range	1 x 10 <sup>2</sup> copies/μl to at least 1 x 10 <sup>6</sup> copies/μl
Dynamic Range	50 to 10 <sup>6</sup> HIV-1 DNA proviral copies
Reporting Units	HIV proviral DNA detected, not detected or inconclusive
Controls	Inhibition and extraction control, negative control, positive control
Validated specimen	EDTA Whole Blood
Storage	-20 ± 5 °C
Instrument	Compatible with a wide range of conventional PCR Device

CATALOG NUMBER	PRODUCT INFORMATION
HIVPROD/WBB/25	HIV Proviral DNA PCR Kit
HIVPROD/WBB/100	HIV Proviral DNA PCR Kit