

WB Quantitative and Diagnostic Kit for Epstein - Barr virus (EBV) DNA Real-time PCR

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

- The Epstein–Barr virus (EBV), also called human herpesvirus 4 (HHV-4), is one of eight known human herpes virus types in the herpes family, and is one of the most common viruses in humans.
- It is associated with fever, sore throat, swollen lymph nodes in the neck, and sometimes an enlarged spleen. It is also known as human herpesvirus 4.
- EBV can cause mononucleosis, not everyone infected with the virus will get mononucleosis. White blood cells called B cells are the primary targets of EBV infection.
- WobbleBase Epstein–Barr virus RT-PCR Detection kit, uses forward and reverse primers to hybridize to a specific sequence product. A probe, which is contained in the same reaction mixture and which consists of an oligonucleotide labeled with a 5'-reporter dye and a downstream, 3'-quencher dye, hybridizes to a target sequence within the PCR product.
- A Taq polymerase which possesses 5' – 3' exonuclease activity cleaves the probe. The reporter dye and quencher dye are separated upon cleavage, resulting in an increase in fluorescence for the reporter. Thus, the increase in fluorescence is directly proportional to the target amplification during PCR

KEY FEATURES

- Provides tight precision at medically relevant decision points`.
- Confidence in your results with primers and probes targeting highly conserved regions
- Positive and negative control to confirm the integrity of the kit reagents
- High sensitivity & accuracy
- Available in different pack sizes
- Reliable and cost effective.

SPECIFICATIONS

Technology	Real-time PCR
Type of Analysis	Qualitative and quantitative
Target Sequence	Specific conservative DNA sequence of EBNA1
Analytical Specificity	Epstein-Barr virus, 100 %
Analytical Sensitivity (LoD with probability 95 %)	150 IU/ml using Wobble Base manual extraction Viral DNA Nucleic Acid Kit
Diagnostic Specificity	94.19 % (CI95%: 86.35 % – 97.84 %)
Diagnostic Sensitivity	99.10 % (CI95%: 96.45 % – 99.84 %)

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

Linear Range	1010 – 102.5 IU/ml
Dynamic Range	5x10 ² -5x10 ⁹ IU/ml (LoD varying according to the extraction and material used)
Reporting Units	IU/ml
Conversion Factor	1 IU = 1 Copy
Controls	Inhibition and extraction control, negative control, positive control
Validated specimen	DNA extracted from BAL, CSF, Plasma
Storage	-20 ± 5 °C
Required detection channels	FAM, HEX(VIC)
Instrument	Compatible with a wide range of real-time PCR device

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CATALOG NUMBER	PRODUCT INFORMATION	CONTENTS
EBVQ/WBB/50	WB Quantitative Epstein-Barr virus RT-PCR Detection kit	50 reactions
EBVQ/WBB/100	WB Quantitative Epstein-Barr virus RT-PCR Detection kit	100 reactions
EBVD/WBB/50	WB Diagnostic RT-PCR Kit for Epstein-Barr virus	50 reactions
EBVD/WBB/100	WB Diagnostic RT-PCR Kit for Epstein-Barr virus	100 reactions