

WB Diagnostic Kit for Herpes Simplex Virus type 1/2 DNA Real-time 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

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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

- WobbleBase HSV 1/2 real-time PCR detection kit is in vitro nucleic acid amplification assay for the qualitative and quantitative single tube detection of Herpes Simplex Virus-1 and 2 (HSV-1/2) from clinical samples.
- Herpes Simplex Virus is a member of the herpes virus family, Herpesviridae. HSV-1 and 2 have relatively large double-stranded DNA genomes.
- Most HSV positive cases are characterized by lesions on the skin and mucous membranes of the mouth and genitals. HSV infections can be either primary or a recurrence of a previous infection. More than 90% of the primary HSV infections are asymptomatic.
- Primary infection with HSV-1/2 can lead to gingivostomatitis, eczema herpetic, keratoconjunctivitis and encephalitis.
- Symptoms of a secondary infection are skin lesions in the nose, mouth and genital regions. Even more severe are the recurrent forms of keratoconjunctivitis and meningitis.

KEY FEATURES

- The test allows highly sensitive qualitative and quantitative detection of HSV-1 and HSV-2.
- Primed reactions.
- The PCR kit uses “hot-start” Taq-polymerase enzyme which greatly reduces the frequency of non-specifically workflow with ready-to-use reagents.
- Simple reaction setup and data interpretation, no special personnel training required.
- Easy workflow with ready-to-use reagents
- High sensitivity & accuracy
- Available in different pack sizes
- Reliable and cost effective.

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

Target Sequence	Specific DNA sequence of B glycoprotein (gB)
Analytical Specificity	Herpes simplex virus type 1 (HSV-1/2), 100 %
Analytical Sensitivity (LoD with probability 95 %)	50 copies/ml using Wobble Base manual extraction DNA Nucleic Acid Kit
Diagnostic Specificity	97.62 % (CI95%: 93.63 % – 99.23 %)
Diagnostic Sensitivity	100.00 % (CI95%: 98.24 % – 100.00 %)
Linear range	10 ¹⁰ – 10 ^{2.5} cp/ml
Dynamic range	10 ¹⁰ – LoD cp/ml (LoD varying according to the extraction, material and channel used)
Reporting Units	cp/ml
controls	Inhibition and extraction control, negative control, positive control
Validated specimen	Plasma, Serum
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
HSV1/2D/WBB/50	WB Diagnostic Real-time PCR kit for HSV 1/2	50 reactions

WB Diagnostic Kit for Herpes Simplex Virus type 1/2 DNA Real-time PCR Kit

HSV1/2D/WBB/100	WB Diagnostic Real-time PCR kit for HSV 1/2	100 reactions
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