

WB (CMV) Quantitative and Diagnostic Kit for Human Cytomegalovirus (HCMV) 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

CONTACT

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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

INTRODUCTION

- Human cytomegalovirus (HCMV), also called cell inclusion body virus, is a double helix DNA virus and belongs to the β genus of herpes virus family, which causes infected cells to enlarge and has a huge intranuclear inclusion.
- The ways of infection of HCMV is mainly through contact, blood transfusion, intrauterine and birth canal, and the infections are commonly found in fetus, new-born & pregnant women.
- Wobble base Human cytomegalovirus Detection kit is TaqMan Probe-based assay for quantitative detection of human cytomegalovirus (HCMV).
- Ready to use format, including Master Mix for the target and PCR control to monitor for PCR inhibition and validate the quality
- Specific Primer and Probe mix for the pathogen/virus/viroid of interest

KEY FEATURES

- Provides tight precision at medically relevant decision points`.
- Confidence in your results with primers and probes targeting highly conserved regions not impacted by drug resistance mutations
- 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 with hydrolysis probes
Type of Analysis	Qualitative and quantitative
Target Sequence	Specific conservative DNA sequence of IE1 protein gene
Analytical Specificity	Human Cytomegalovirus (CMV), 100 %
Analytical Sensitivity (LoD with probability 95 %)	122.59 IU/ml using Wobble Base manual extraction Viral DNA Nucleic Acid Kit
Diagnostic Specificity	94.29 % (CI95%: 88.01 % – 97.44 %)
Diagnostic Sensitivity	98.39 % (CI95%: 95.90 % – 99.38 %)
Linear Range	10^{10} – $10^{2.5}$ IU/ml

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- ✓ Small Business Innovation Research Initiative (SBIRI) (2013) – Dept. of Science and Tech., Govt. of India.
- ✓ TATA Health Fund (Phase 1 - Biosafety) – 2024

Dynamic Range	10 ¹⁰ – LoD 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 CSF, Plasma, Serum, Urine, Whole blood (EDTA)
Storage	-20 ± 5 °C
Required detection channels	FAM, HEX(VIC)
Instrument	Compatible with a wide range of real-time PCR device

Your thinking partner in science

CATALOG NUMBER	PRODUCT INFORMATION	CONTENTS
CMVQ/WBB/50	WB Quantitative Human cytomegalovirus Real-Time PCR Detection kit	50 reactions
CMVQ/WBB/100	WB Quantitative Human cytomegalovirus Real-Time PCR Detection kit	100 reactions
CMVD/WBB/50	WB Diagnostic Human cytomegalovirus Real-Time PCR Detection kit	50 reactions
CMVD/WBB/100	WB Diagnostic Human cytomegalovirus Real-Time PCR Detection kit	100 reactions