

WB Quantitative Diagnostic Kit for Factor V (G1691A) Leiden 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

- Factor V Leiden is a blood clotting disorder. Factor V is a protein that is needed for blood to clot properly. Factor V Leiden is caused by a change (mutation) in the gene for this protein.
- The Factor V Leiden protein is harder to regulate than the normal Factor V protein. This makes blood clots more likely to form, a condition called thrombophilia.
- WobbleBase Factor V Leiden Mutation RT-PCR Testing Kit amplifies and detects the target sequence using allele-specific fluorophore-labeled probes. The target sequence is a single nucleotide guanine/adenine polymorphism in site 1691 (G1691A).
- Presence of wild-type allele (G1691G) is detected in the HEX fluorescent channel and mutant allele (A1691A) in the FAM fluorescent channel.
- In case of heterozygous genotype (G1691A) a signal is detected in both channels. The Factor V mutation testing kit contains ready to use master mix and takes advantage of the "hot start" technology, minimizing non-specific reactions and assuring maximum sensitivity.

KEY FEATURES

- Rapid and extremely accurate test.
- Being based on allelic discrimination, the kit is a more reliable and highly reproducible assay.
- Higher sensitivity and specificity.
- High sensitivity & accuracy
- Available in different pack sizes
- Reliable and cost effective.

SPECIFICATIONS

Technology	Real-Time PCR with hydrolysis probes
Type of analysis	Qualitative
Target Sequence	G1691A Polymorphism of factor V Leiden
Minimum DNA Concentration	50 ng/ul DNA
Analytical Specificity	100 %

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

Analytical Sensitivity (LoD with probability 95 %)	100%
Detected Genotypes	Wild type and Mutant
Controls	Negative control, positive control
Reporting Units	FV Mutant and wild allele DNA detected, not detected or inconclusive
Validated Specimen	Whole blood
Storage	-20 ± 5 °C
Required Detection Channels	FAM,HEX(VIC)
Instrument	Compatible with a wide range of Real-Time PCR devices.

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CATALOG NUMBER	PRODUCT INFORMATION	CONTENTS
FVQ/WBB/25	WB Quantitative Diagnostic Kit for Factor V (G1691A) Leiden RT-PCR Kit	50 reactions
FVQ/WBB/100	WB Quantitative Diagnostic Kit for Factor V (G1691A) Leiden RT-PCR Kit	100 reactions