






HIV VIRAL LOAD **(QUANTITATIVE) RT PCR Kit**

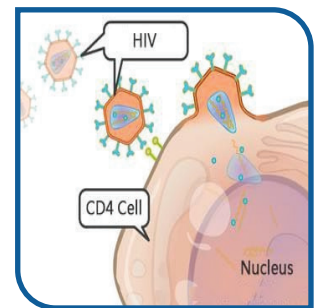
-  For sensitive and specific quantitative detection for HIV-1 groups M, N, and O; Subtypes A, B, C, D, A/E, F, G, AG-GH, in human plasma or serum Specimens.
-  High Quality Reagents for Increased Tolerance, Thermostability and Reproducibility
-  Turnaround time within 100 minutes
-  Compatible with all Real-Time PCR Instruments
-  Make-in-India, cost effective product compared to imported kit



HIV VIRAL LOAD (QUANTITATIVE) RT PCR KIT

Human Immunodeficiency Virus (HIV) is a well-known viral agent responsible for causing Acquired Immune Deficiency Syndrome (AIDS). Annually, there are approximately 62.97 thousand new HIV infections and about 41.97 thousand AIDS-related deaths occur in India. Currently, the total number of individuals living with HIV in India is around 2.4 million. Thus, monitoring the viral load in patients with HIV-1 infection is an essential test for the establishment of therapeutic strategy and determination of therapeutic progress. The RT-PCR test is used to quantify the level of HIV RNA in a person's blood. Unlike tests that detect antibodies, this method directly identifies the presence of HIV, making it a valuable tool for researchers and healthcare providers to diagnose infections, especially during the window period.

- HIV, damages vital CD4+ T cells, weakening the immune system
- When the CD4 T-cell number drops significantly, people are diagnosed with AIDS.
- Early detection allows for timely initiation of antiretroviral therapy, which can slow down the progression of HIV to AIDS.



Intended Use: The RT PCR kit developed by Triviron Healthcare Pvt. Ltd. is used for an in vitro nucleic acid amplification kit for the detection & quantification of HIV-1 RNA in Serum / Plasma

Sample type: Serum / Plasma

Available Pack size: Rxn: 25rxn, 50rxn, 100rxn.

Target Channels: 5' untranslated region (5' UTR) (FAM) gene and IC (HEX/VIC)

Principle of the Test

The kit includes an RT-PCR enzyme mix designed for RT-PCR technology, utilizing synthetic DNA primers & fluorescence-labeled probes. Detection of HIV RNA in the patient sample triggers the amplification of the 5' untranslated region (5' UTR) gene labeled with FAM through reverse transcription and subsequent Taq-polymerase amplification. Fluorescence-labeled probes undergo cleavage during each PCR cycle, & detection occurs if the fluorescence surpasses the threshold limit in the amplification cycles. Additionally, a Primer-probe set specific to a Bacteriophage gene labeled with HEX/VIC acts as an internal control (IC). A signal in the FAM channel indicates the presence of HIV RNA, while a signal in the HEX/VIC channel confirms proper specimen processing and successful PCR reaction.

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Kit Content

Tube	Content
1	Enzyme Mix (EM)
2	Primer probe Mix (PPM) for HIV detection
3	HIV QS1, HIV QS2, HIV QS3, HIV QS4
4	Internal Control (IC)
5	Nuclease Free Water (NFW)
6	IFU



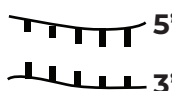
Assay Workflow



Serum/
Plasma
Sample



Viral Nucleic
acid extraction



Reverse Transcription
(RT) & Real - Time
PCR amplification



Results

Ordering Information

Product Name	HIV-1 Sure Quantitative RT-PCR kit	HIV-1 Sure Quantitative RT-PCR kit	HIV-1 Sure Quantitative RT-PCR kit
Cat. No.	DV2-30079	DV2-30080	DV2-30081
Specification	25rxn/Kit	50rxn/Kit	100rxn/Kit
Specimen	Serum/Plasma		
Storage	-25° C to -15° C		
Applicable Equipment	QuantStudio-5/3, Bio-Rad CFX96, 384, Applied Biosystems 7300/7500, Roche Diagnostics LightCycler 96/480, Qiagen Rotor-Gene Q		

*Please note: Product specifications are subject to change without prior notice owing to product modifications, improvements / up-gradation.



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