

PathoPlex

HIV, HBV & HCV Qualitative RT-PCR Detection Kit

for Specific Detection of HIV, HBV and HCV in a single tube, multiplex format & detection of Co-infection of HIV, HBV & HCV.



Introduction:

NeoDx's PathoPlex HIV, HBV & HCV Qualitative RT-PCR detection kit is a novel solution for the simultaneous detection of three prominent bloodborne viruses: Human Immunodeficiency Virus (HIV), Hepatitis B Virus (HBV), and Hepatitis C Virus (HCV) from the same sample in a single reaction tube. This innovative kit integrates the power of multiplexing with the precision of real-time PCR, providing healthcare professionals with a highly sensitive and time-efficient diagnostic tool.

Additionally, PathoPlex offers the unique ability to detect co-infections, further enhancing treatment monitoring and patient care. Traditionally, the detection of these pathogens relied on separate assays, consuming valuable time and resources. However, with the advent of the PathoPlex kit, healthcare providers can efficiently screen all three viruses in a single test, streamlining the diagnostic process and enabling swift intervention.

Features:

- **Multiplex, single-tube TaqMan probe-based assay for multiple detections in a single reaction.**
- **MasterMix: Increased Inhibitor tolerance, enhanced thermostability, efficient PCR amplification, and **supports reverse transcription*** (*for RNA viruses).**
- **Internal Control: RNaseP.**

Target Genotypes

HIV 1 & 2
HBV (A-J)
HCV (1-8)

Target Genes

Gag Protein
Spike Protein
Poly Protein

Detection Channels

Cy5
FAM
HEX

- PCR Run Time: 90 minutes.
- Sample Compatability: extracted DNA/RNA from human whole blood, serum, & plasma.
- Open platform kit compatible with 4 channels and above RT-PCR Instruments.
- Traceable to
 - 4th WHO International Standard for HBV DNA for NAT (NIBSC code: 10/266)
 - 6th WHO International Standard for Hepatitis C virus RNA (NIBSC code: 18/184)
 - 4th WHO International Standard for HIV-1 RNA (NIBSC code: 16/194)
 - 2nd WHO International Standard for HIV-2 RNA for Nucleic Acid Amplification Techniques (NIBSC code: 16/296)
- LoD/Analytical sensitivity
 - HIV- 20 IU/mL, 34.8 Copies/mL
 - HBV- 32 IU/mL, 179.2 Copies/mL
 - HCV- 85 IU/mL, 374 Copies/mL

Clinical Relevance:

HIV, HBV, and HCV pose significant global health challenges, affecting millions of individuals worldwide. India has the third highest burden of HIV in the world with an estimated 2.3 million people living with HIV (PLHIV) in 2021. As the principal routes for HIV transmission are similar to those followed by hepatotropic viruses, co-infections of HBV and HCV are expected in HIV-infected patients.

Co-infection of HBV and/or HCV with HIV complicates the clinical course, and management and may also adversely affect therapy for HIV infection, with chronic viral hepatitis emerging as an important cause of morbidity and mortality among HIV-positive patients.

Order Information:

PathoPlex HIV, HBV & HCV Qualitative RT-PCR Detection kit

Catalog Number	Pack Size
NDXIVD010	100 Rxn
NDXIVD010_01	50 Rxn
NDXIVD010_02	20 Rxn

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Developed & Manufactured by:
 NeoDx Biotech Labs Pvt Ltd
 SR4, 4th floor, Pragathi Plaza,
 Opp. Biocon, Hebbagodi, Bengaluru,
 Karnataka India - 560100



1800-270-9020



enquiry@neodx.in



8123499429