

# 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.  
**Store at -20°C**



### 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. 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:

- 📌 Kit Format: Multiplex, Single-tube - Multiple detections in a single reaction.
- 📌 Chemistry: TaqMan probe-based.
- 📌 MasterMix: Increased Inhibitor Tolerance, Enhanced Thermostability, Efficient PCR Amplification, and **supports reverse transcription.**
- 📌 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 Compatibility: Extracted DNA/RNA from Whole Human blood, Serum, G Plasma.
- RT-PCR Instrumentation: Open platform kit compatible with 4 channels and above 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 that followed by hepatotropic viruses, infections with 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**

Manufactured by:  
NeoDx Biotech Labs Pvt Ltd

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