NMPA

Hepatitis B Virus Nucleic Acid Test Kit

Fluorescent Probe-Based Real-Time PCR Assay

Hepatitis B virus (HBV) is a hepatotropic virus that mainly exists in liver cells and damages liver cells, causing inflammation, necrosis and fibrosis of liver cells. There are various clinical types of HBV infection: HBV carriers, acute hepatitis, chronic hepatitis, liver failure (severe hepatitis) and cirrhosis, and some patients can develop hepatocellular carcinoma (HCC).

HBV infection is a chronic and dynamic process requiring precise clinical management. Quantitative detection of HBV is critical for assessing viral replication activity, enabling healthcare professionals to monitor fluctuations in viral load over time and make informed, timely adjustments to therapeutic strategies to optimize patient outcomes.



Test Principle

This kit uses polymerase chain reaction (PCR) technology based on TaqMan fluorescent probe to quantitatively detect the P gene of hepatitis B virus from specimens including human serum and plasma collected from the patients or suspected patients.

Product Features

Ultra-High Sensitivity

The limit of detection is 10 IU·mL^{-1}.
The limit of quantitation is 50 IU·mL^{-1}.

High Specificity

No cross-reactivity with other viruses causing similar symptoms.

Rapid 2-Hour Turnaround

Complete the test within 2 hours to facilitate timely clinical decisions.

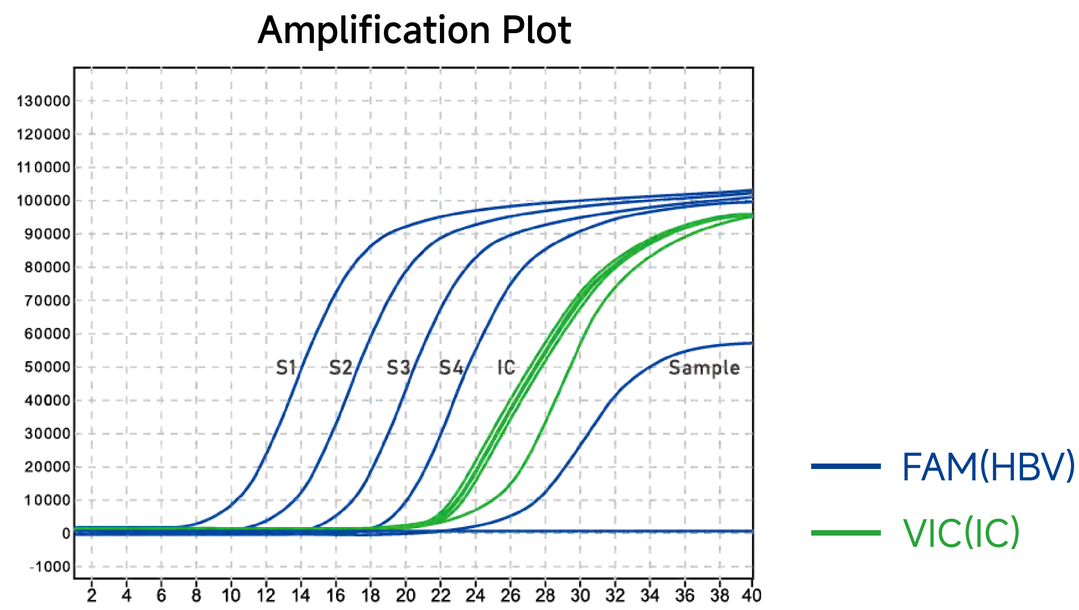
Built-in Contamination Control

Minimise the PCR contamination by UNG/dUTP system.

Recommended Thermal Cyclers

- Applied Biosystems™ 7500 Real-Time PCR System
- Stratagene MX 3000P Real-Time PCR System
- Bio-Rad CFX96 Real-Time PCR System
- Other Real-Time Thermal Cyclers which could detect FAM and VIC(HEX) simultaneously

Example Result



*S1-4 represent quantitative standards.

Ordering Information

Cat. No.	Product Name	Format	Specimen	Kit Size	Shelf Life	Certification
H012T048B0C1	Hepatitis B Virus Nucleic Acid Test Kit (Quantitative)	Liquid	Serum/Plasma	48 Tests/Kit	12 months	Non-CE NMPA

***Recommendation: Use the Mole Nucleic Acid Extraction Kit (P086, Magnetic Beads Method) for optimal results.**

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Ver： 0.1 | Date: 2026-07-20