

PRODUCT INFORMATION

Hepatitis B is a liver disease caused by human **Hepatitis B virus** (HBV). It is largely transmitted through exposure to bodily fluids containing the virus. HBV infection affects 350 million people worldwide and most of the patients develop chronic infection. The virus is about 40-48nm in diameter, consisting of an outer envelope and a protein and DNA core. The viral DNA is a partially double-stranded open circle in the viral particles. This structure is referred to as relaxed circular DNA (RC-DNA). Upon infection, the virus transports its RC-DNA to the hepatocyte nucleus and converts it to a covalently closed circular DNA (cccDNA) using host cell enzymes. HBV cccDNA then transcribes viral RNA, which may serve as pregenome RNAs or mRNAs coding for multifunctional polymerases, core and envelop proteins that are needed for the production of HBV progeny virus. The HBV cccDNA is thought to be the major reason of antiviral drug resistance. Therefore, effective treatment to eradicate HBV infection requires the elimination of viral cccDNA from hepatocytes. TrimGen has developed a sensitive, reliable method to monitor the amount of cccDNA in the HBV patients under antiviral therapy.

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eQ-PCR Hepatitis B Virus detection kit provides a highly sensitive test for early detection of the HBV from blood or human liver tissues. The test uses real-time PCR and is performed in a closed-tube walk-away system.

Platform:	eQ-PCR (enhanced real-time PCR)
Assay Type:	Detection and Quantification
Sensitivity:	10 - 20 copies / ml sample
Sample Source:	DNA (from Whole blood, liver tissues)

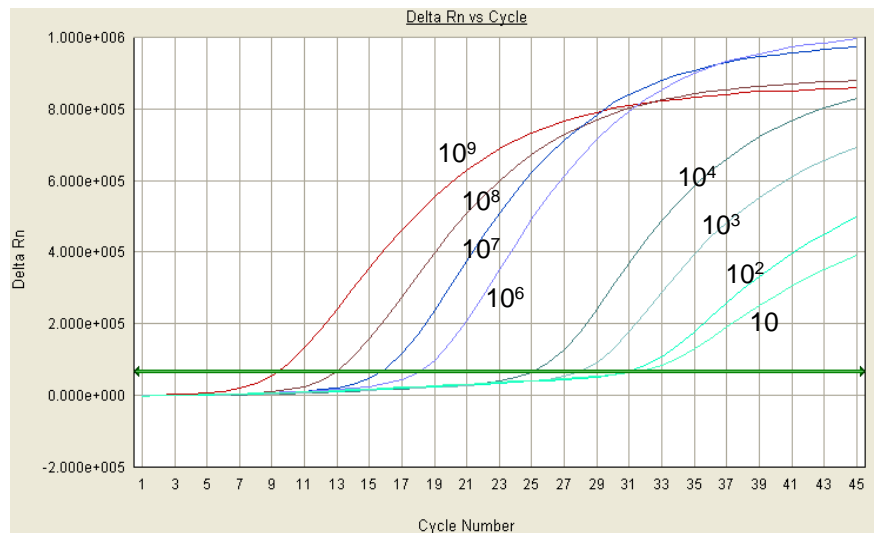
Test Kit

Kit size	24 tests	48 tests
Cat No.	EP-200s	EP-200

Test Service

Sample Requires	Whole blood, extracted DNA
TEST Code	EP-200TST

Data



Using eQ-PCR technology, TrimGen’s HBV kit may detect 10 – 1000,000,000 copies of Hepatitis B viruses.