

# Real-Time Polymerase Chain Reaction-Based Detection and Quantification of Hepatitis B Virus DNA

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jove.com/video/66249

## Materials

Name	Company	Catalog Number	Comments
4 <sup>th</sup> WHO International Standard for hepatitis B virus DNA	NIBSC	NIBSC code: 10/266	The 4th WHO International Standard for hepatitis B virus (HBV) DNA, NIBSC code 10/266, is intended to be used for the calibration of secondary reference reagents used in HBV nucleic acid amplification techniques (NAT).
ABI real-time PCR machines	ThermoFisher Scientific	ABI 7500; QuantStudio 5	This is a real time PCR machine
HBV, HCV and HIV Multiplex 14/198	NIBSC	NIBSC code: 14/198	This is a very low positive triplex reagent for NAT assays containing hepatitis B (HBV), hepatitis C (HCV) and human immunodeficiency virus-1 (HIV-1)
QIAGEN real-time PCR machine	Qiagen	Rotor-Gene Q	This is a real time PCR machine
TRUPCR HBV Viral Load kit	Kilpest India Limited	3B294	This is a real time PCR based kit used in this study for the HBV DNA detection and viral load determination
TRUPCR Viral Nucleic Acid Extraction Kit	Kilpest India Limited	3B214	This is a DNA extraction kit used for the extraction of HBV viral DNA from NIBSC:10/266 and NIBSC:14/198