

Hepatitis B Virus (HBV) Nucleic Acid Detection Kit

(Fluorescence PCR Method)



Tianlong Hepatitis B Virus (HBV) Nucleic Acid Detection Kit is for in vitro quantitative detection of HBV nucleic acid using the Real-time Polymerase Chain Reaction (Real-time PCR) method. The kit can be used as an aid in managing patients with HBV infection undergoing anti-viral therapy. It can be used to measure HBV DNA levels during treatment to assess response to treatment. The kit cannot be used for blood screening. The result should not be used as the sole criterion for disease evaluation. It should be used in conjunction with clinical manifestation and other detection methods for comprehensive disease evaluation.

5 IU/mL Lower limit of detection

15 IU/mL Lower limit of quantitation

FEATURES

Reliable Detection
Deliver accurate quantitation of 8 HBV genotypes A-H

High Sensitivity
The lower limit of detection is 5 IU/mL and limit of quantitation is 15 IU/mL

Accurate HBV Viral Load Monitoring
Accurate HBV viral load quantification over a broad linear range from 15 IU/mL~1.0 x 10⁹ IU/mL

Traceability to the WHO Standard
Precise and fully traceable quantification according to the 4th WHO International Standard for HBV Nucleic Acid Amplification Techniques (NIBSC 10/266)

Optimized Workflow
Compatible with Tianlong extraction kits can make your experiment more accurate and rapid

DATA INTERPRETATION

Figure 1: Amplification curve of HBV in gradient concentration

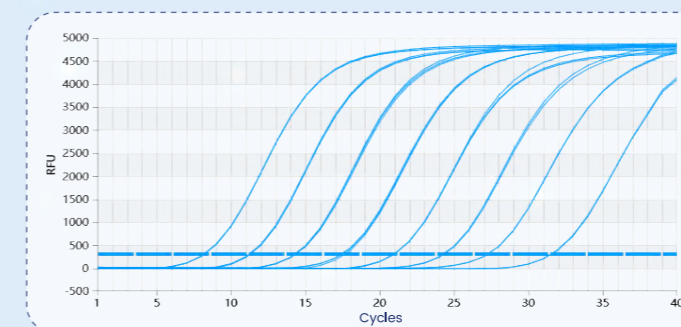
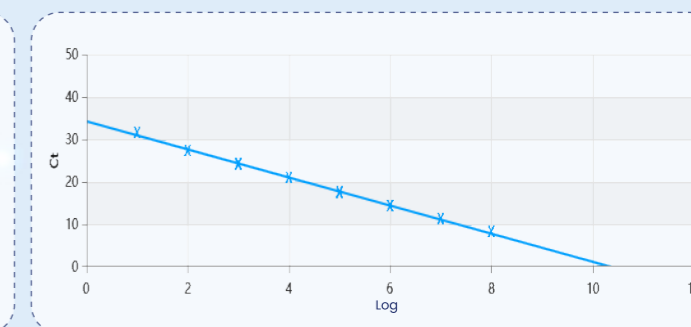


Figure 2: Linearity for HBV



ORDERING INFORMATION

Product Name	Hepatitis B Virus (HBV) Nucleic Acid Detection Kit (Fluorescence PCR Method)	
Cat.No	P166H	P167H
Specification	48T/Kit	96T/Kit
Specimen	Serum, plasma	
Linear Range	15 IU/mL~1.0 x 10 ⁹ IU/mL	
Linearity	r ≥0.98	
Sensitivity	limit of detection is 5 IU/mL, limit of quantitation is 15 IU/mL	
Precision	CV≤5%	
Storage & Validity	-20°C ± 5°C for 12 months	
Applicable Equipment	Instruments with FAM and HEX/VIC channels, such as Tianlong Gentier Real-time PCR Systems (96E/R), ABI7500 Real-Time PCR Systems	

ASSAY WORKFLOW



Version 1.0

All rights reserved by Tianlong. July 31, 2024



Tianlong Science and Technology

Mail: inquiry@medtl.com
Phone: +86-29-82682132
Website: www.medtl.net
Address: No. 4266 Shanglin Road, Xi'an, China