Bring Technology to Life

TIAN LONG

Hepatitis B Virus (HBV) Nucleic Acid Detection Kit

(Fluorescence PCR Method)

Ultrasensitive

This kit is intended for the in vitro quantitative detection of Hepatitis B Virus (HBV) DNA nucleic acid in human serum or plasma.

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 10^9 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

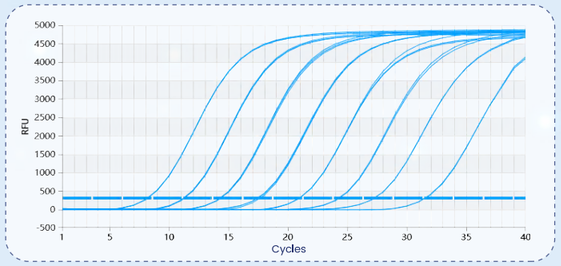
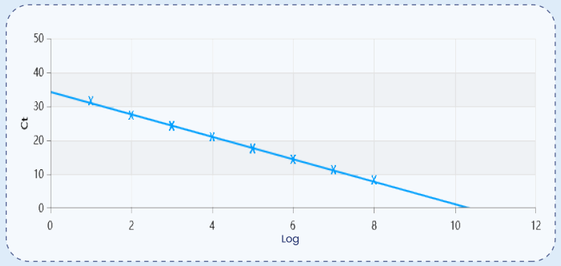


Figure 2: Linearity for HBV



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℃ ± 5℃ 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	

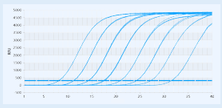
ASSAY WORKFLOW

1 Sample Collection → 2 Nucleic Acid Extraction → 3 PCR Detection → 4 Analysis and Report









Version 1.0

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