

# Clarity™ Hepatitis B Virus Quantification Kit

(96 reactions)

The hepatitis B virus (HBV) is a global human pathogen that causes transient and chronic infections of the liver. The virus can be transmitted by contact with blood or other body fluids from an infected patient. Accurate detection and quantification of HBV DNA plays a vital role in diagnosing HBV infection and monitoring the efficacy of antiviral therapy. The Clarity™ HBV quantification kit is developed for sensitive and precise quantification of HBV DNA from human blood samples, and targets the S region of all HBV genotypes (A-H).

## Features



### REPRODUCIBILITY

Precise quantification of DNA from all **8 HBV genotypes**



### HIGH SENSITIVITY

Optimized to detect  $< 0.5$  copy/ $\mu$ L reaction



### EASE OF USE

Low hands-on-time, compatible with most conventional thermal cyclers



### HIGH THROUGHPUT ANALYSIS

Analyze up to 96 reactions under 4 hours



## Product Performance

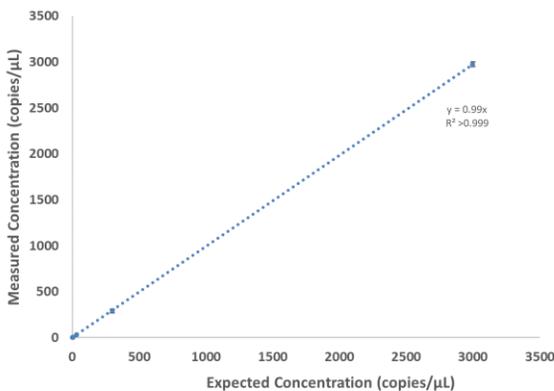


Figure 1. Measured concentration of HBV DNA against its expected using the Clarity™ HBV quantification kit.

The Clarity™ HBV quantification kit includes a specially formulated primer and probe mix that enables precise detection of the S region from all 8 HBV genotypes in a single test.

The sensitivity and linear range of detection of the kit were validated through quantification of the S region of HBV. The kit, when use with the Clarity™ dPCR system, demonstrated detection limit of  $< 0.5$  copies/ $\mu$ L reaction and excellent linearity across a dynamic range from 0 - 3000 copies/ $\mu$ L reaction.

Product Specification	
Technology	Digital PCR
Target Sequence	S region of all HBV genotypes (A-H)
Sensitivity (LOD)	< 0.5 copy / $\mu$ L reaction
Time to Result	< 4 h
Linear Range of Measurement	0 – 3000 copies / $\mu$ L
Specimen Type	Human plasma or serum samples
Reporting Format	Results reported in copies / $\mu$ L reaction
Instrument Required	Clarity™ digital PCR system (Cat. No. 10001)
Additional Materials Required	Clarity™ consumables package (Cat. No. 10011)
Detection Channels	FAM
Kit Storage	-20°C, avoid repeated freezing and thawing of kit contents

Ordering Information		
Product Name	Description	Catalogue Number
Clarity™ Hepatitis B Virus Quantification Kit	96 Reactions	10018

jnmedsys



(주) 바이오디

(우.14322) 경기도 광명시 하안로 60 광명SK테크노파크 A동 1102호  
T\_02.6264.3399 F\_02.6264.3400 E\_order@bio-d.co.kr

 검색창 “바이오디” 검색  
[www.bio-d.co.kr](http://www.bio-d.co.kr)

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