



Clarity™ Hepatitis B Virus Quantification Kit

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**



Ease of Use

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



High Sensitivity

Optimized to detect <0.5 copy/ μ L reaction



Manufactured in Singapore

Under ISO13485 certification



High Throughput Analysis

Analyze up to 96 reactions in 4 hours



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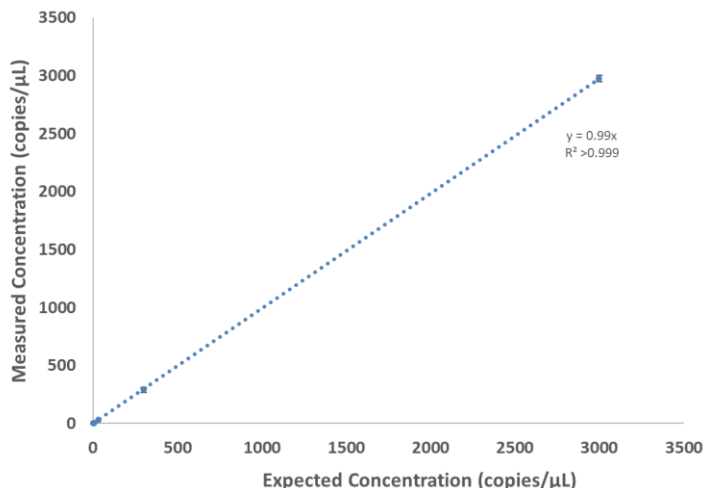


Figure 1. Measured concentration of HBV DNA against its expected using the Clarity™ HBV quantification kit.

Product Performance

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/μL reaction and excellent linearity across a dynamic range from 0 - 3000 copies/ μL reaction.

Product Specification

| | |
|-------------------------------------|--|
| Technology | Digital PCR |
| Target Sequence | S region of all HBV genotypes (A-H) |
| Sensitivity (LOD) | < 0.5 copy /μL reaction |
| Time to Result | < 4 h |
| Linear Range of Measurement | 0 – 3000 copies /μL reaction |
| Specimen Type | Human plasma or serum samples |
| Reporting Format | Results reported in copies /μL |
| Instrument Tested | Clarity™ digital PCR system (Cat. No. 10001) |
| Additional Material 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 | Cat. No. |
|--|--------------|----------|
| Clarity™ Hepatitis B Virus Quantification Kit <i>For research use only</i> | 96 Reactions | 10018 |