



Clarity™ Epstein-Barr Virus Quantification Kit

Epstein-Barr Virus (EBV) is a double-stranded DNA γ -herpesvirus associated with different malignancies. Quantification of the EBV DNA load has shown to be beneficial for early disease diagnosis as well as accurate monitoring of treatment responses. The Clarity™ EBV Quantification Kit is developed for sensitive detection and quantification of EBV DNA using the Clarity™ digital PCR system (Cat. No. 10001). The kit detects both the single-copy Epstein-Barr nuclear antigen-I (EBNA-I) as well as the multi-copy BamHI-W gene, enabling quantitative and qualitative measurements of EBV DNA isolated from human plasma or serum.

Features



Reproducibility

Precise quantification of EBV specific DNA



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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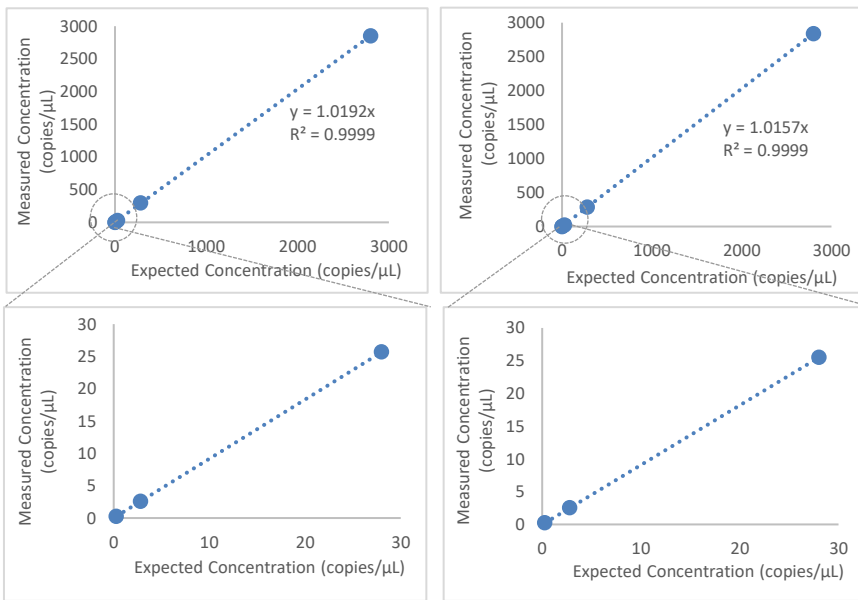


Figure 1. Graphical representation of the measured EBNA-I (left) and BamHI-W (right) concentrations against its expected using the Clarity™ EBV quantification kit. Excellent linearity ($R^2 > 0.999$) was observed across a dynamic range from 0 – 3000 copies/ μ L.

Product Performance

The accuracy and sensitivity of Clarity™ EBV quantification kit were validated by quantifying EBNA-I and BamHI-W in a duplex assay. The results showed concordance between the expected and measured concentrations of the target DNA. In addition, the system demonstrated sensitive detection to as low as 0.28 copies/ μ L DNA, and excellent linearity ($R^2 > 0.999$) across a dynamic range from 0 – 3000 copies/ μ L.

Product Specification

Technology	Digital PCR
Target Sequence	EBNA-I, BamHI-W
Sensitivity (LOD)	< 0.5 copy / μ L reaction
Time to Result	< 4 h
Linear Range of Measurement	0 – 3000 copies / μ L reaction
Specimen Type	Human plasma or serum samples
Reporting Format	Results reported in copies / μ L
Instrument Tested	Clarity™ digital PCR system (Cat. No. 10001)
Additional Material Required	Clarity™ consumables package (Cat. No. 10011)
Detection Channels	FAM (EBNA-I), HEX (BamHI-W)
Kit Storage	-20°C, avoid repeated freezing and thawing of kit contents

Ordering Information

Product Name	Description	Cat. No.
Clarity™ Epstein-Barr Virus Quantification Kit <i>For research use only</i>	96 Reactions	10017



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