

# Clarity™ Epstein-Barr Virus Quantification Kit (96 reactions)



- Accurate and sensitive detection
- Absolute quantification
- Easy-to-use digital PCR kit
- Fast analysis



# CLARITY™ EPSTEIN-BARR VIRUS QUANTIFICATION KIT

Epstein-Barr Virus (EBV) is a double-stranded DNA  $\gamma$ -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.



## REPRODUCIBILITY

Precise quantification of EBV specific DNA



## HIGH SENSITIVITY

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



## EASE OF USE

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



## HIGH THROUGHPUT ANALYSIS

Analyze up to 96 reactions under 4 hours



## PERFORMANCE YOU CAN COUNT ON

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/μL DNA, and excellent linearity ( $R^2 > 0.999$ ) across a dynamic range from 0 – 3000 copies/μL.

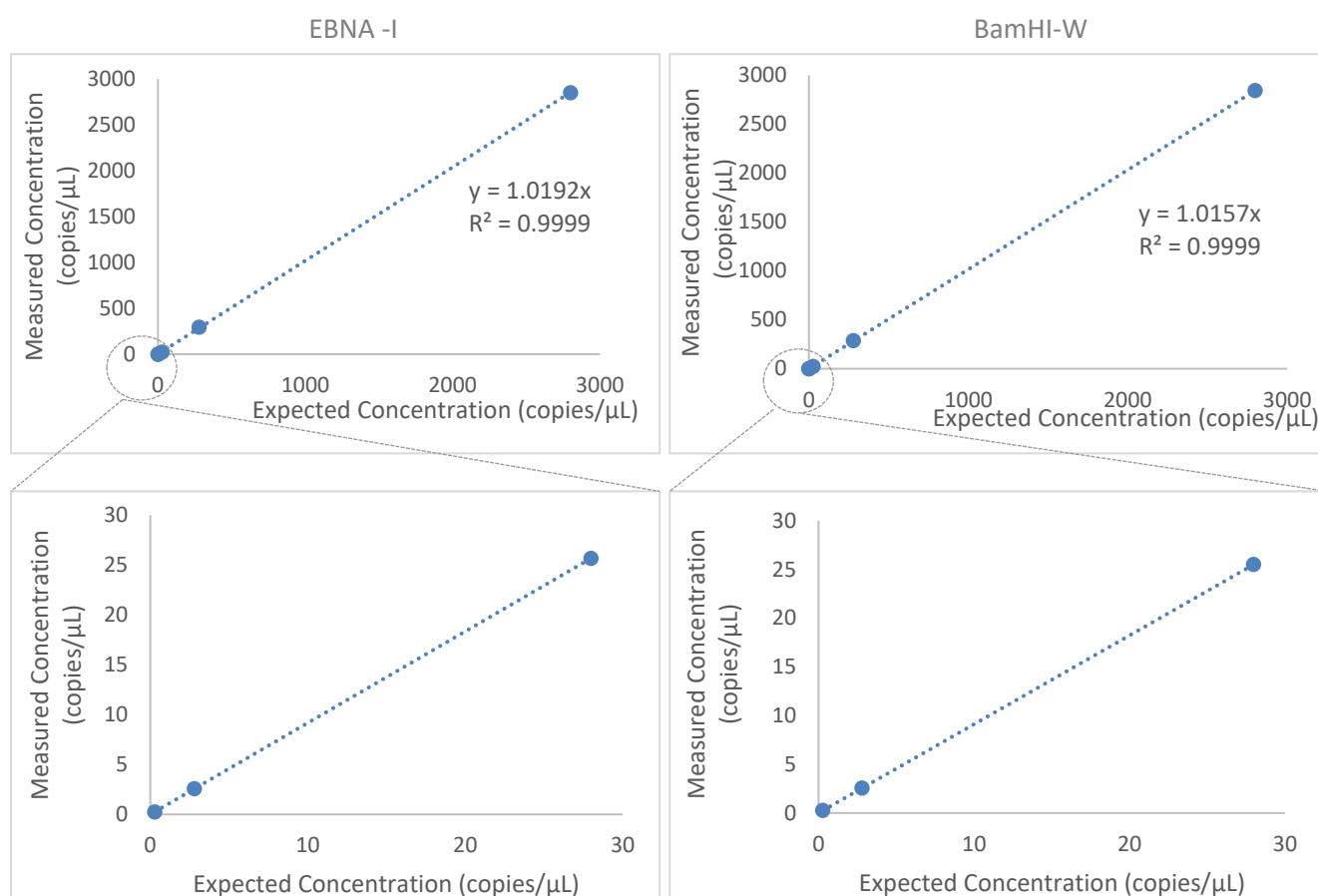


Figure 1. Graphical representation of the measured EBNA-I (left) and BamHI-W (right) concentrations against its expected using the Clarity™ EBV quantification kit. Excellent linearity ( $R^2 > 0.999$ ) was observed across a dynamic range from 0 – 3000 copies/μL.



# CLARITY™ EPSTEIN-BARR VIRUS DIGITAL PCR QUANTIFICATION

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

Ordering Information		
Product Name	Description	Catalogue Number
Clarity™ Epstein-Barr Virus Quantification Kit	96 Reactions	10017

General enquiries: [order@bio-d.co.kr](mailto:order@bio-d.co.kr)

Technical support: [techservice@bio-d.co.kr](mailto:techservice@bio-d.co.kr)

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

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

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