

## JC Virus (MAD1 Strain) Quantitated Viral DNA

Catalog Number: 08-943-250

Lot Number: D1106

Product Description: JC Human Polyomavirus (MAD1 strain) Quantitated Viral DNA PCR Control.

Unit Size: 250 µl

Expiration Date: 01-2015

Suspending Buffer: 10 mM Tris, 1 mM EDTA, pH 8.0 with 50 µg/ml glycogen carrier

### QUALITY CONTROL DATA

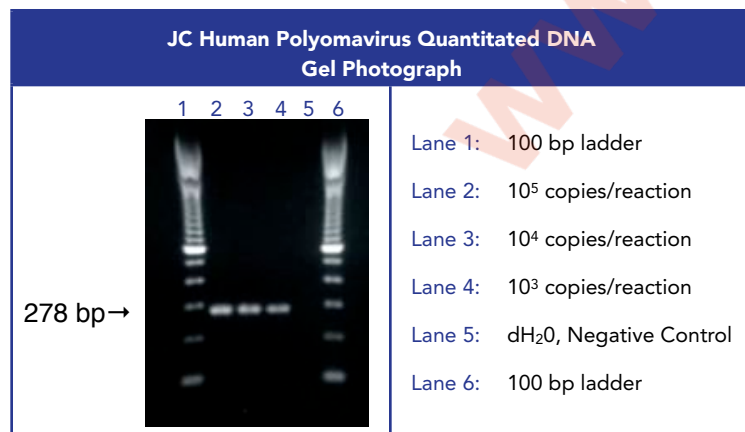
DNA Copy Number:  $1.4 \times 10^5$  DNA copies/µl

**Note:** The JC viral genome is linearized at the *Bam*H I site (base 4307) in the large T antigen gene. Due to the linear nature of this DNA, primer sets that span the *Bam*H I digestion site will not produce an amplification product.

**DNA Quantitation:** DNA copy number is determined by real-time PCR. DNA copy number may vary depending on the quantitation method used.

### PCR Analysis of DNA

**Control:** PCR analysis was performed on purified JC Polyomavirus DNA using primers specific for the large T antigen gene of JC Polyomavirus. The reaction produced a 278 bp fragment. The expected band was observed from  $10^5$  copies/reaction down to  $10^3$  copies/reaction. A representative gel photograph is shown below.



### PRODUCT DETAILS

**Shipping and Storage:** This product is shipped frozen on dry ice. **Store at -20°C upon receipt.** Avoid multiple freeze-thaw cycles as product degradation may result.

**Recommendations:** Upon thawing, centrifuge the vial for a few seconds to remove residual droplets from the lid. **CAUTION:** ABI does not recommend storage of dilutions of quantitated PCR controls under any conditions. All dilutions should be made immediately before use and used promptly. We have observed that dilutions used for standard curves may tend to "lose" copy number with time (sometimes a matter of an hour or so after dilution), especially at dilutions less than 100-1000 copies per microliter.

**Applications For Use:** ABI's quantitated PCR controls are prepared from virus, bacteria, parasites, or mollicutes, and are intended for use as positive PCR quantitation standards for the organism in question. Due to the nature of these products, ABI cannot guarantee their suitability as extraction controls. Additionally, due to the extreme sensitivity of detection in PCR reaction, and since no method of purification can guarantee the complete absence of extraneous agents, PCR controls are not intended for use as negative controls for other organisms.

### Safe Handling Recommendation:

The DNA extraction procedure used has been shown to eliminate the infectivity of most viruses and bacteria; therefore, this product is not considered biohazardous. However, this product is not specifically tested for infectivity and should be handled in accordance with Good Laboratory Practices and any applicable local guidelines.

This product is for research use only.  
Not for use in diagnostic procedures.

Quality Control

12-02-2013

Date