HIV-1 (IIIB Strain) Quantitated Viral RNA

Catalog Number: 23-118-107

Lot Number: H1102-1

Product Description: Human Immunodeficiency Virus type 1 (IIIB Strain) propagated in H9 cells, purified, RNA extracted and quantitated.

Unit Size 1 Tube

Reconstitution Volume: 25 µL

Reconstitution Buffer: Molecular Grade Water (RNase-Free)

Final Buffer: 10 mM Tris, 0.1mM EDTA, pH 8.0
(When using recommended reconstitution volume)

QUALITY CONTROL DATA

HIV-1 RNA Concentration by RT-dPCR: 1.4×10^7 copies/mL

Digital Analysis: **Primer Sequences:**
Digital PCR was performed on cDNA using the following primers specific for the Long Terminal Repeat (LTR) region of HIV-1.[1]

Forward: 5′ AAG CCT CAA TAA AGC TTG CCT TGA 3′

Reverse: 5′ GTT CGG GCG CCA CTG CTA G 3′

Probe: 5′ [FAM] TCT GGT AAC TAG AGA TCC CTC AGA CC [BHQ1] 3′
Where FAM is a 6–fluorescein derivative and BHQ1 is a dark quencher (Black Hole Quencher 1).

PRODUCT DETAILS

Shipping and Storage: This product is shipped dried in a stabilizing inert matrix. **Store at room temperature upon receipt.** Do not open the foil pouch until ready to use.

Recommendations For Use: **Store in sealed foil pouch until ready to use. Briefly centrifuge inner tube prior to opening. Reconstitute the inner tube with 25 µL of Molecular Grade Water (RNase-Free) and pulse vortex to mix. Centrifuge the vial briefly to remove residual droplets from the sides and lid. After 10 minutes at room temperature, vortex again and briefly centrifuge. The reconstituted product is stable for up to 8 hours at room temperature.**

Applications For Use: Advanced Biotechnologies' 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, we 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 RNA 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 and should be handled in accordance with Good Laboratory Practices and any applicable local guidelines.

References:

1. Drosten C, et al. Ultrasensitive monitoring of HIV-1 viral load by a low-cost real-time reverse transcription-PCR assay with internal control for the 5' long terminal repeat domain. Clinical Chemistry. 2006 Jul;52(7):1258-66.

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

Quality Control

03/26/2018
Date

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CERTIFICATE OF ANALYSIS

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