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Dengue-1 (Hawaii Strain) Quantitated Viral RNA

Catalog Number: 23-271-108

Lot Number: J0508-2

Product Description: Dengue serotype 1 (Hawaii Strain) purified, RNA extracted and quantitated.

Unit Size 1 Tube

Reconstitution Volume: 25 μ L

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

RNA Concentration by digital RT-PCR: 1.4×10^8 copies/mL

Digital Analysis: **Primer Sequences:**
Digital RT-PCR was performed on RNA using the following primers specific for the N55 gene region of Dengue-1.¹

Forward: 5' CAA AAG GAA GTC GTG CAA TA 3'

Reverse: 5' CTG AGT GAA TTC TCT CTA CTG AAC C 3'

Probe: 5' FAM CAT GTG GTT GGG AGC ACG C BHQ-1 3'
Where FAM is a 6-fluorescein derivative and BHQ1 is a dark quencher (Black Hole Quencher 1).

RNA Quantitation: RNA copy number was determined by digital RT-PCR. RNA copy number may vary depending on quantitation method and primers used.

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 μ L 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. Johnson BW, Russell BJ, Lanciotti RS. Serotype-specific detection of dengue viruses in a fourplex real-time reverse transcriptase PCR assay. J Clin Microbiol. 2005 Oct;43(10): 4977-83. DOI: 10.1128/JCM.43.10.4977-4983.2005

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

Weatherstine
Quality Control

06/19/2018
Date

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CERTIFICATE OF ANALYSIS