

**Genomic RNA from Dengue Virus Type 3 (DENV-3), Philippines/H87/1956**

**Catalog No. NR-2771**

**Product Description:**

Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Chlorocebus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) infected with DENV-3, Philippines/H87/1956. (BEI Resources NR-80 lot 70061552) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

**Lot: 70076032**

**Manufacturing Date: 15MAY2025**

TEST	SPECIFICATIONS	RESULTS
<b>Genotypic Analysis</b> Sequencing of species-specific region (~ 900 nucleotides)	≥ 98% identity with DENV-3, H87 (GenBank: AB609590.1)	99.5% identity with DENV-3, H87 (GenBank: AB609590.1)
<b>Functional Activity by RT-PCR Amplification<sup>1</sup></b> Polyprotein gene	~ 1000 base pair amplicon	~ 1000 base pair amplicon (Figure 1)
<b>Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)<sup>2</sup></b>	Report results	0.96 ng per 100 µL (0.096 µg/mL)
<b>Estimated Amount per Vial<sup>2</sup></b>	Report results	0.96 ng
<b>Virus Inactivation</b> 10% of total yield inoculated on Vero cells and evaluated for cytopathic effect and immunofluorescent staining <sup>3,4</sup>	No viable virus detected	No viable virus detected

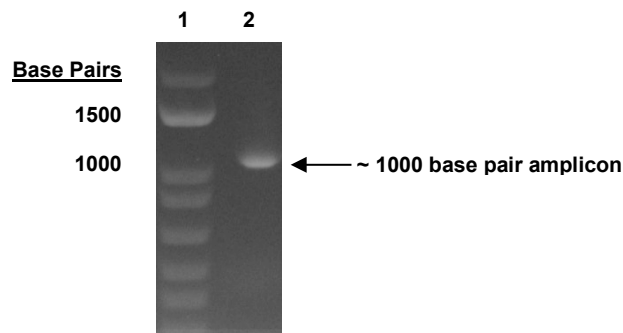
<sup>1</sup>Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-2771 in a 50 µL reaction

<sup>2</sup>Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

<sup>3</sup>Use of the QIAamp® Viral RNA Mini Kit (Qiagen catalog no. 52906) has been demonstrated to consistently inactivate 100% of DENV-3 as shown by the absence of cytopathic effect (CPE) and immunofluorescent staining after plating the entire extract on virus-susceptible cells for two passages.

<sup>4</sup>Immunofluorescent testing performed with mouse anti-dengue complex primary antibody (Millipore MAB8705) and goat anti-mouse secondary antibody (Millipore AP124f).

**Figure 1: Functional Activity of NR-2771 by RT-PCR Amplification of Polyprotein Gene**



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder  
Lane 2: PCR product from 1 µL of NR-2771

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09 OCT 2025

Technical Manager or designee, ATCC Federal Solutions

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