

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

**Catalog No. NR-2771**

**Product Description:** Genomic RNA was isolated from a preparation of cell lysate and supernatant from African green monkey (Vero) cells<sup>1</sup> infected with DEN-3, Philippines/H87/1956.

**Lot<sup>2</sup>: 70009407**

**Manufacturing Date: 13JUN2018**

TEST	SPECIFICATIONS	RESULTS
<b>Sequencing of Species-Specific Region (~ 870 nucleotides)</b>	Consistent with DEN-3 Philippines/H87/1956	99.5% identity with DEN-3 Philippines/H87/1956 (GenBank: M93130.1)
<b>Functional Activity by RT-PCR Amplification<sup>3</sup></b>	~ 1000 base pair amplicon	~ 1000 base pair amplicon (Figure 1)
<b>Total RNA Content by RiboGreen<sup>®</sup> Measurement (Viral, Cellular, and Carrier)</b>	Report results	41.8 ng per 100 µL
<b>Virus Inactivation</b> 10% of total yield inoculated on Vero cells <sup>1</sup> and evaluated for cytopathic effect (CPE) and viral antigen expression by indirect immunofluorescence assay (IFA) <sup>4,5</sup>	No virus detected	No virus detected

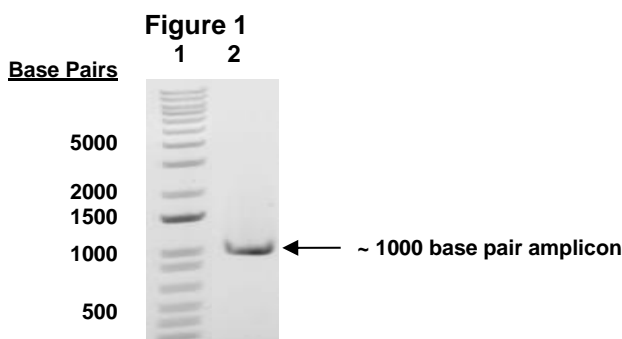
<sup>1</sup>Vero cells: ATCC<sup>®</sup> CCL-81<sup>™</sup>

<sup>2</sup>Nucleic acid was extracted from a preparation of DEN-3, Philippines/H87/1956 (BEI Resources NR-80 lot 70010661) using a QIAamp<sup>®</sup> Viral RNA Mini Kit (Qiagen 52906).

<sup>3</sup>Reverse transcription was performed using an iScript<sup>™</sup> cDNA Synthesis Kit (Bio-Rad 170-8891) with 10 µL of NR-2771 in a 20 µL reaction; PCR was performed using iTaq<sup>™</sup> DNA Polymerase (Bio-Rad 170-8870) with 2 µL of cDNA in a 25 µL reaction.

<sup>4</sup>Using monoclonal Anti-Dengue Virus Complex Antibody, clone D3-2H2-9-21 (Millipore MAB8705)

<sup>5</sup>Use of the QIAamp<sup>®</sup> Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of dengue viruses, as shown by the absence of CPE and viral antigen expression by IFA after plating the entire extract on virus-susceptible cells.



Lane 1: Invitrogen<sup>™</sup> TrackIt<sup>™</sup> 1 Kb Plus DNA Ladder

Lane 2: NR-2771

/Heather Couch/

Heather Couch

07 AUG 2018

Program Manager or designee, ATCC Federal Solutions

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