

**Genomic RNA from Dengue Virus Type 1, Hawaii**

**Catalog No. NR-4287**

**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 dengue virus type 1 (DEN-1), Hawaii.

**Lot<sup>2</sup>: 70002362**

**Manufacturing Date: 13FEB2017**

TEST	SPECIFICATIONS	RESULTS
<b>Sequencing of Species-Specific Region (842 nucleotides)</b>	Consistent with DEN-1, Hawaii Consistent with NR-82	100% identity with DEN-1, Hawaii (GenBank: EU848545) Consistent with NR-82
<b>Functional Activity by RT-PCR Amplification<sup>3</sup></b>	~ 1000 bp amplicon	~ 1000 bp amplicon (Figure 1)
<b>Total RNA Content by RiboGreen<sup>®</sup> Measurement (Viral, Cellular, and Carrier)</b>	Report results	4.5 ng per 100 µL
<b>Viral RNA Content by Droplet Digital RT-PCR</b>	Report results	9.7 × 10 <sup>4</sup> copies per µL
<b>Virus Inactivation</b> 10% of total yield inoculated on Vero cells <sup>1</sup> and evaluated for expression of viral antigen by indirect immunofluorescence <sup>1,4,5</sup>	No viable virus detected	No viable virus detected

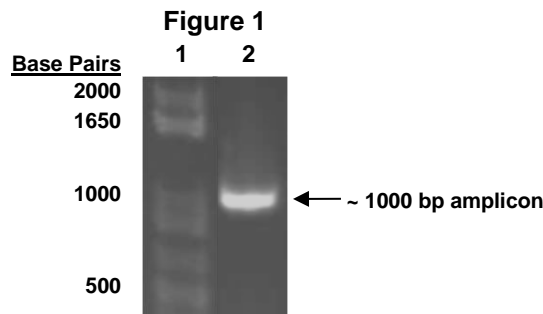
<sup>1</sup>Vero cells: ATCC<sup>®</sup> CCL-81™

<sup>2</sup>Nucleic acid was extracted from a preparation of DEN-1, Hawaii (BEI Resources NR-82, Lot 64218899) using a QIAamp<sup>®</sup> Viral RNA Mini Kit (Qiagen 52906).

<sup>3</sup>Reverse transcription was performed using an iScript™ cDNA Synthesis Kit (Bio-Rad 170-8891) with 10 µL of NR-4287 in a 20 µL reaction; PCR was performed using iTaq™ DNA Polymerase (Bio-Rad 170-8870) with 2 µL of cDNA in a 25 µL reaction.

<sup>4</sup>Using Anti-Dengue Virus Type I Antibody, clone 15F3-1 (Millipore MAB8701)

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



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder  
Lane 2: NR-4287

**Date:** 28 APR 2017

**Signature:** *Michael R. Gynther*

BEI Resources Authentication

ATCC<sup>®</sup>, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC<sup>®</sup>'s knowledge.

ATCC<sup>®</sup> is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

