

Genomic RNA from Dengue Virus Type 1, TH-Sman

Catalog No. NR-2768

Product Description:

Genomic RNA was isolated from a preparation of cell lysate and supernatant from African green monkey cells (Vero; ATCC® CCL-81™) infected with dengue virus type 1 (DENV-1), TH-Sman (BEI Resources lot 63633073) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70052146

Manufacturing Date: 04MAY2022

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 910 nucleotides)	Consistent with DENV-1	Consistent with DENV-1
Functional Activity by RT-PCR Amplification¹	~ 1000 bp amplicon	~ 1000 bp amplicon
Estimated Concentration (post-dilution) by RiboGreen® Measurement (Viral, Cellular and Carrier)²	Report results	57.2 ng per 100 µL
Estimated Amount per Vial²	Report results	57.2 ng
Virus Inactivation 10% of total yield inoculated on Vero cells and evaluated for cytopathic effect and by IFA testing after serial passage ^{3,4}	No viable virus detected	No viable virus detected

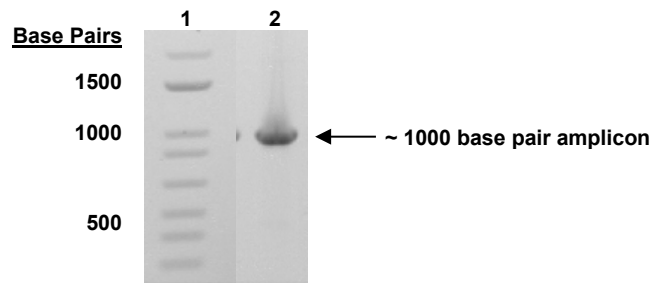
¹Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-2768 in a 50 µL reaction

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

³Using MAB anti-pan-DENV (Millipore 8705) primary antibody and FITC-labeled anti-mouse IgG (Millipore 5008)

⁴Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of DENV as shown by the absence of cytopathic effect (CPE) and viral RNA expression by IFA after plating the entire extract on virus-susceptible cells for two passages.

Figure 1: Functional Activity of NR-2768 by RT-PCR Amplification



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: PCR product from 1 µL of NR-2768

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