

Genomic RNA from Dengue Virus Type 2, New Guinea C (NGC)

Catalog No. NR-4288

Product Description: Genomic RNA was isolated from a preparation of cell lysate and supernatant from Rhesus monkey kidney (LLC-MK2 derivative) cells¹ infected with dengue virus type 2 (DEN-2), New Guinea C (NGC).

Lot²: 64152191

Manufacturing Date: 29APR2016

TEST	SPECIFICATIONS	RESULTS
Sequencing of Species-Specific Region (837 nucleotides)	Consistent with DEN-2, NGC	99% identity with DEN-2, NGC (GenBank: KM204118)
Functional Activity by RT-PCR Amplification³	~ 950 bp amplicon	~ 950 bp amplicon (Figure 1)
Total RNA Content by RiboGreen[®] Measurement (Viral, Cellular, and Carrier)	Report results	1.8 ng per 100 µL
Viral RNA Content by Droplet Digital RT-PCR	Report results	7.4 × 10 ² copies per µL
Virus Inactivation 10% of total yield inoculated on LLC-MK2 ¹ derivative cells and evaluated for immunofluorescence ^{4,5}	No viable virus detected	No viable virus detected

¹LLC-MK2 derivative cells: ATCC[®] CCL-7.1[™]

²Nucleic acid was extracted from a preparation of DEN-2, NGC (BEI Resources NR-84, Lot 62905413) using a QIAamp[®] Viral RNA Mini Kit (Qiagen 52906).

³Reverse transcription was performed using an iScript[™] cDNA Synthesis Kit (Bio-Rad 170-8890) with 10 µL of NR-4288 in a 20 µL reaction; PCR was performed using iTaq[™] DNA Polymerase (Bio-Rad 170-8875) with 2 µL of cDNA in a 25 µL reaction.

⁴Using Anti-Dengue Virus Type II Antibody, clone 3H5-1 (Millipore MAB8702)

⁵Use of the QIAamp[®] 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.

Date: 28 JUN 2016

Signature:



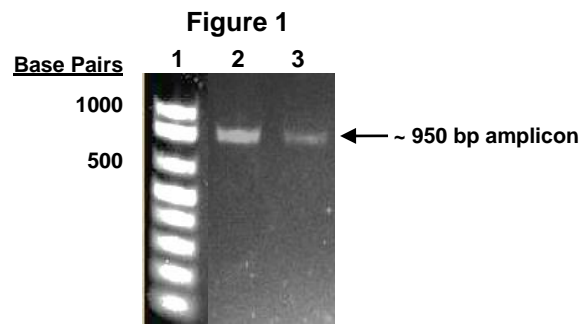
BEI Resources Authentication

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Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder

Lane 2: NR-4288, undiluted

Lane 3: NR-4288, 1:10 dilution