

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) cells¹ infected with dengue virus type 1 (DEN-1), Hawaii.

Lot²: 63379480

Manufacturing Date: 20MAY2015

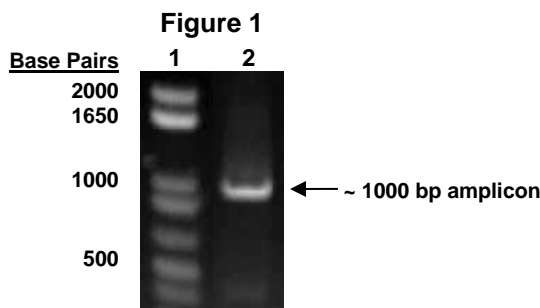
TEST	SPECIFICATIONS	RESULTS
Sequencing of Species-Specific Region (918 nucleotides)	Consistent with DEN-1, Hawaii	100% identity with DEN-1, Hawaii (GenBank: EU848545)
Functional Activity by RT-PCR Amplification³	~ 1000 bp amplicon	~ 1000 bp amplicon (Figure 1)
Total RNA Content by RiboGreen[®] Measurement (Viral, Cellular, and Carrier)	Report results	531 ng per 100 µL
Viral RNA Content by Droplet Digital RT-PCR	Report results	2.3 × 10 ⁶ copies per µL
Virus Inactivation 10% of total yield inoculated on Vero cells and evaluated for expression of viral antigen ^{1,4}	No viable virus detected	No viable virus detected

¹Vero cells: ATCC[®] CCL-81[™]

²Nucleic acid was extracted from a preparation of DEN-1, Hawaii (BEI Resources NR-82, Lot 58964764) using a QIAamp[®] Viral RNA Mini Kit (Qiagen 52906).

³Reverse transcription was performed using an iScript[™] cDNA Synthesis Kit (Bio-Rad 170-8891) with 10 µL of NR-2771 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.

⁴Use of the QIAamp[®] Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of dengue viruses, as shown by the absence of cytopathic effect (CPE) and expression of viral antigen after plating the entire extract on virus-susceptible cells



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

Date: 08 FEB 2017

Signature: *Michael R. Gynther*

BEI Resources Authentication

ATCC[®], 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[®]'s knowledge.

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