

Genomic RNA from Dengue Virus Type 4, H241 (Tissue Culture Adapted)

Catalog No. NR-4289

Product Description:

Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Macaca mulatta* (Rhesus monkey) kidney cells (LLC-MK2 derivative; ATCC® CCL-7.1™) infected with dengue virus type 4 (Den-4), H241 (tissue culture adapted) (BEI Resources NR-86 lot 70078289) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70079524

Manufacturing Date: 14NOV2025

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 500 nucleotides)	≥ 98% identity with Den-4, H241 (GenBank: KR011349.2)	99.2% identity with Den-4, H241 (GenBank: KR011349.2)
Functional Activity by RT-PCR Amplification¹ Capsid Protein C	~ 500 base pair amplicon	~ 500 base pair amplicon
Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)²	Report results	37.6 ng per 100 µL (0.38 µg/mL)
Estimated Amount per Vial²	Report results	37.6 ng
Virus Inactivation 10% of total yield inoculated on LLC-MK2 cells and evaluated for cytopathic effect and by IFA 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-4289 in a 50 µL reaction

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

³Using mouse anti-Dengue Complex (Millipore MAB-8705) and goat anti-mouse FITC (Millipore AP124F)

⁴Use of the QIAamp® Viral RNA Mini Kit (Qiagen catalog no. 52906) has been demonstrated to consistently inactivate 100% of DenV as shown by the absence of cytopathic effect (CPE) and immunofluorescent antibody after plating the entire extract on virus-susceptible cells for two passages.

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