

**Genomic RNA from Dengue Virus Type 3, DENV-3/US/BID-V1043/2006**

**Catalog No. NR-50532**

**Product Description:**

Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Aedes albopictus* mosquito larval epithelial cells (Clone C6/36; ATCC® CRL-1660™) infected with dengue virus type 3 (DEN-3), DENV-3/US/BID-V1043/2006 (BEI Resources lot 70058084) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

**Lot: 70060473**

**Manufacturing Date: 01MAY2023**

TEST	SPECIFICATIONS	RESULTS
<b>Genotypic Analysis</b> Sequencing of species-specific region (~ 870 nucleotides)	≥ 98% identity with DENV-3/US/BID-V1043/2006 (GenBank: EU482555)	100% identity with DENV-3/US/BID-V1043/2006 (GenBank: EU482555)
<b>Functional Activity by PCR Amplification<sup>1</sup></b> Envelope gene	~ 1000 base pair amplicon	~ 1000 base pair amplicon
<b>Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)<sup>2</sup></b>	Report results	17.1 ng per 100 µL
<b>Estimated Amount per Vial<sup>2</sup></b>	Report results	17.1 ng
<b>Virus Inactivation</b> 10% of total yield inoculated on C6/36 cells and evaluated for cytopathic effect and by fluorescent antibody assay after serial passage <sup>3,4</sup>	No viable virus detected	No viable virus detected

<sup>1</sup>Amplified using iScript™ cDNA Synthesis Kit (Bio-Rad® 1708891; 10 µL of NR-50532 in a 10 µL reaction) and iTaq™ DNA Polymerase (Bio-Rad® 1708870; 5 µL of NR-50532 cDNA in a 50 µL reaction)

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

<sup>3</sup>Tested with Mouse Anti-Dengue Complex (Millipore MAB8705)

<sup>4</sup>Use 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 by fluorescent antibody assay after plating the entire extract on virus-susceptible cells for two passages.

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11 SEP 2023

Technical Manager or designee, ATCC Federal Solutions

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