

**Genomic RNA from Enterovirus Species A Type 71, Tainan/4643/1998**

**Catalog No. NR-4960**

**Product Description:**

Genomic RNA was isolated from a preparation of cell lysate and supernatant from human rhabdomyosarcoma cells (RD; ATCC® CCL-136™) infected with enterovirus species A type 71 (EV-A71), Tainan/4643/1998. (BEI Resources lot 70053409) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

**Lot: 70056202**

**Manufacturing Date: 01NOV2022**

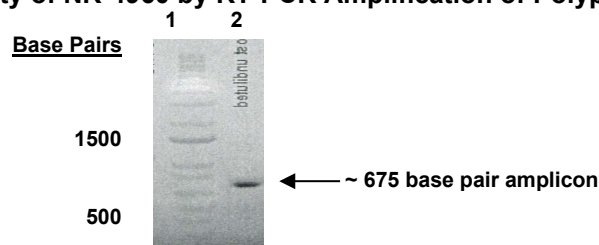
| TEST  | SPECIFICATIONS   | RESULTS   |
|---|--|---|
| <b>Genotypic Analysis</b><br>Sequencing of species-specific region<br>(~ 640 nucleotides)   | ≥ 98% identity with EV-A71,<br>Tainan/4643/1998 (GenBank:<br>AF304458.1) | 100% identity with EV-A71,<br>Tainan/4643/1998 (GenBank:<br>AF304458.1) |
| <b>Functional Activity by RT-PCR Amplification<sup>1</sup></b><br>Polyprotein 2 gene  | ~ 675 base pair amplicon   | ~ 675 base pair amplicon<br>(Figure 1)                                  |
| <b>Estimated Concentration (post-dilution) by Qubit®<br/>Measurement (Viral, Cellular and Carrier)<sup>2</sup></b>                              | Report results   | 3.47 ng per 100 µL<br>(0.003 µg per µL)                                 |
| <b>Estimated Amount per Vial<sup>2</sup></b>  | Report results   | 3.47 ng   |
| <b>Virus Inactivation</b><br>10% of total yield inoculated on RD cells and evaluated<br>for cytopathic effect after serial passage <sup>3</sup> | No viable virus detected   | No viable virus detected  |

<sup>1</sup>Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-4960 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>Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of enterovirus as shown by the absence of cytopathic effect (CPE) and viral RNA expression by RT-PCR after plating the entire extract on virus-susceptible cells for two passages.

**Figure 1: Functional Activity of NR-4960 by RT-PCR Amplification of Polyprotein 2 Gene**



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder  
Lane 2: PCR product from 1 µL of NR-4960

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21 DEC 2022

Technical Manager or designee, ATCC Federal Solutions

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