

**Genomic RNA from Human Respiratory Syncytial Virus, A1997/12-35**

**Catalog No. NR-43976**

**Product Description:**

Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Homo sapiens* carcinoma cells (HEp-2; ATCC® CCL-23™) infected with human respiratory syncytial virus (RSV), A1997/12-35 (BEI Resources lot 70039171) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

**Lot: 70041158**

**Manufacturing Date: 03NOV2021**

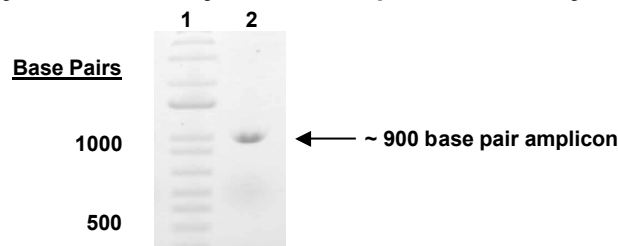
TEST	SPECIFICATIONS	RESULTS
<b>Genotypic Analysis</b> Sequencing of species-specific region (~ 850 nucleotides)	≥ 98% identity with human RSV, A1997/12-35 (GenBank: JX069800)	100% identity with human RSV, A1997/12-35 (GenBank: JX069800)
<b>Functional Activity by RT-PCR Amplification<sup>1</sup></b> Glycoprotein gene	~ 900 base pair amplicon	~ 900 base pair amplicon (Figure 1)
<b>Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)<sup>2</sup></b>	Report results	51.5 ng per 100 µL
<b>Estimated Amount per Vial<sup>2</sup></b>	Report results	51.5 ng
<b>Virus Inactivation</b> 10% of total yield inoculated on HEp-2 cells and evaluated for cytopathic effect and by direct fluorescent antibody (DFA) assay 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-43976 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 RSV as shown by the absence of cytopathic effect (CPE) and DFA (Light Diagnostics 5022) after plating the entire extract on virus-susceptible cells for two passages.

**Figure 1: Functional Activity of NR-43976 by RT-PCR Amplification of Glycoprotein Gene**



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder  
Lane 2: PCR product from 1 µL of NR-43976

/Heather Couch/  
Heather Couch

11 MAY 2022

Program Manager or designee, ATCC Federal Solutions

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