

Genomic RNA from Human Respiratory Syncytial Virus, B1

Catalog No. NR-59925

Product Description:

Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Chlorocebus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) infected with human respiratory syncytial virus (RSV), B1. (BEI Resources NR-56243 lot 70062310) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70071379

Manufacturing Date: 02OCT2024

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 1020 nucleotides)	≥ 98% identity with RSV, B1 (GenBank: AF013254)	99.9% identity with RSV, B1 (GenBank: AF013254)
Functional Activity by RT-PCR Amplification¹ Glycoprotein gene	~ 1100 base pair amplicon	~ 1100 base pair amplicon
Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)²	Report results	52 ng per 100 µL (0.52 µg/mL)
Estimated Amount per Vial²	Report results	52 ng
Virus Inactivation 10% of total yield inoculated on Vero cells and evaluated for cytopathic effect and by immunofluorescent antibody assay 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-59925 in a 50 µL reaction

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

³Using Goat anti-RSV (Bio-Rad catalog no. 7950-0004) and Rabbit anti-goat:FITC (Bio-Rad catalog no. STAR122F)

⁴Use of the QIAamp® Viral RNA Mini Kit (Qiagen® 52906) has been demonstrated to consistently inactivate 100% of RSV as shown by the absence of cytopathic effect (CPE) and immunofluorescent antibody assay after plating the entire extract on virus-susceptible cells for two passages.

/Sonia Bjorum Brower/

Sonia Bjorum Brower

28 NOV 2024

Technical Manager or designee, ATCC Federal Solutions

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.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

