

Genomic RNA from Influenza A Virus, A/Connecticut/11/2023 (H1N1)pdm09 with NA-I223V and NA-S247N Mutations

Catalog No. NR-59887

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Product Description:

Genomic RNA was isolated from a preparation of cell lysate and supernatant from Madin-Darby canine kidney SIAT1 (MDCK-SIAT1; Sigma 05071502-1VL) infected with influenza A virus, A/Connecticut/11/2023 (H1N1)pdm09. (BEI Resources NR-59881 lot 70070077) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70070810

Manufacturing Date: 09OCT2024

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of Matrix protein (~ 910 nucleotides)	≥ 98% identity with A/Connecticut/11/2023 (H1N1)pdm09 (GenBank: PP305339.1)	100% identity with A/Connecticut/11/2023 (H1N1)pdm09 (GenBank: PP305339.1)
Functional Activity by RT-PCR Amplification¹ Matrix gene	~ 1000 base pair amplicon	~ 1000 base pair amplicon
Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)²	Report results	7.8 ng per 100 µL (0.078 µg/mL)
Estimated Amount per Vial²	Report results	7.8 ng
Virus Inactivation 10% of total yield inoculated on MDCK-SIAT1 cells and evaluated for cytopathic effect and by HA after serial passage ³	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-59887 in a 50 µL reaction

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

³Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of Influenza virus A as shown by the absence of cytopathic effect (CPE) and hemagglutination after plating the entire extract on virus-susceptible cells for two passages.

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