

Genomic RNA from Influenza A Virus, A/Macha/O1237/2021 (H3N2)

Catalog No. NR-59582

Product Description:

Genomic RNA was isolated from a preparation of cell lysate and supernatant from Madin-Darby canine kidney SIAT-1 (MDCK-SIAT1) cells infected with influenza A virus, A/Macha/O1237/2021 (H3N2) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70063750

Manufacturing Date: 17NOV2023

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 730 nucleotides)	Consistent with source virus	Consistent with source virus ¹
Functional Activity by RT-PCR Amplification² Matrix gene	~ 1000 base pair amplicon	~ 1000 base pair amplicon
Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)³	Report results	15.8 ng per 100 µL (0.16 µg/mL)
Estimated Amount per Vial³	Report results	15.8 ng
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System (Post vial; 15 replicates)	Report results	1.9 × 10 ⁸ NDU per mL ⁴
Virus Inactivation 10% of total yield inoculated on MDCK-SIAT1 cells and evaluated for cytopathic effect and HA after serial passage ⁵	No viable virus detected	No viable virus detected

¹Sequence information for Influenza virus A/Macha/O1237/2021 (H3N2) is not available in the NCBI database; nucleotide sequence obtained for NR-59582 lot 70063750 is identical to the source virus.

²Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-59582 in a 50 µL reaction

³Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

⁴NDU; NAAT-detectable units

⁵Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of influenza A viruses as shown by the absence of cytopathic effect (CPE) and HA after plating the entire extract on virus-susceptible cells for two passages.

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09 APR 2024

Technical Manager or designee, ATCC Federal Solutions

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