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SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-59580

Genomic RNA from Influenza A Virus, A/Baltimore/JH-286/2021 (H3N2)

Catalog No. NR-59580

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) cells infected with influenza A virus, A/Baltimore/JH-286/2021 (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: 70063749 **Manufacturing Date: 26OCT2023**

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region Matrix gene (~ 870 nucleotides)	Consistent with source virus	Consistent with source virus[1]
Functional Activity by RT-PCR Amplification[2] Matrix gene	~ 1000 base pair amplicon	~ 1000 base pair amplicon
Estimated Concentration (post-dilution) by RiboGreen® Measurement (Viral, Cellular and Carrier)[3]	Report results	2.9 ng per 100 µL (0.0286 µg/mL)
Estimated Amount per Vial[3]	Report results	2.9 ng
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System (Post vial; 12 replicates)	Report results	2.4×10^7 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

[1]Sequence information for Influenza virus A/Baltimore/JH-286/2021 (H3N2) is not available in the NCBI database; nucleotide sequence obtained for NR-59580 lot 70063749 is identical to the source virus.
[2]Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-59581 in a 50 µL reaction
[3]Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method
[4]NDU; NAAT-detectable units
[5]Use 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.

/Sonia Bjorum Brower/
Sonia Bjorum Brower 10 APR 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.

Support Provided by NIAID

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