Certificate of Analysis for NR-14689

Genomic RNA from Influenza A Virus, A/California/04/2009 (H1N1)pdm09, Cell Isolate (Produced in Cells)

Catalog No. NR-14689

Product Description:

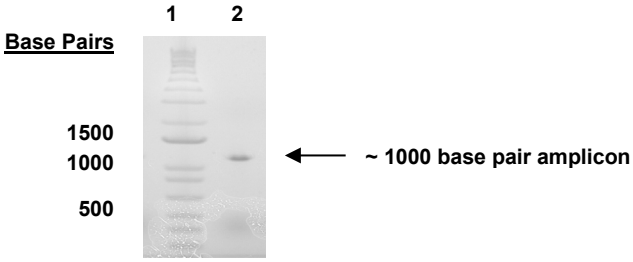
Genomic RNA was isolated from a preparation of cell lysate and supernatant from Madin-Darby canine kidney cells (MDCK; ATCC® CCL-34™) infected with influenza A virus, A/California/04/2009 (H1N1)pdm09 (BEI Resources lot 70038214) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70050563 **Manufacturing Date: 02MAR2022**

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region Matrix gene (~ 890 nucleotides)	≥ 98% identity with A/California/04/2009 (H1N1)pdm09 (GenBank: FJ966085.1)	100% identity with A/California/04/2009 (H1N1)pdm09 (GenBank: FJ966085.1)
Functional Activity by RT-PCR Amplification[1] Matrix gene	~ 1000 base pair amplicon	~ 1000 base pair amplicon (Figure 1)
Estimated Concentration (post-dilution) by RiboGreen® Measurement (Viral, Cellular and Carrier)[2]	Report results	17.1 ng per 100 µL (0.002 µg per mL)
Estimated Amount per Vial	Report results	17.1 ng
Virus Inactivation[3] 10% of total yield inoculated on MDCK cells and evaluated for cytopathic effect after serial passage	No viable virus detected	No viable virus detected

[1]Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-14689 in a 50 µL reaction
[2]Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method
[3]Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of influenza A virus as shown by the absence of cytopathic effect (CPE) after plating the entire extract on virus-susceptible cells for two passages.

Figure 1: Functional Activity of NR-14689 by RT-PCR Amplification of Matrix Gene



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: PCR product from 5 µL of NR-14689

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Certificate of Analysis for NR-14689

/Sonia Bjorum Brower/
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Lead Technical Writer 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.

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