

Genomic RNA from Influenza A Virus, A/California/07/2009 (H1N1)pdm09, Egg Isolate (Produced in Eggs)

Catalog No. NR-13665

Product Description:

Genomic RNA was isolated from a preparation of pooled allantoic fluid from specific pathogen free embryonated chicken eggs infected with influenza A virus, A/California/07/2009 (H1N1)pdm09, (BEI Resources lot 70039698) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70052638

Manufacturing Date: 20MAY2022

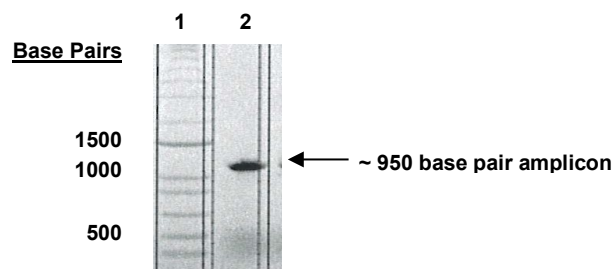
TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region Matrix gene (~ 950 nucleotides)	≥ 98% identity with A/California/07/2009 (H1N1)pdm09 (GenBank CY121681.1)	99.9% identity with A/California/07/2009 (H1N1)pdm09 (GenBank CY121681.1)
Functional Activity by RT-PCR Amplification¹ Matrix gene	~ 950 base pair amplicon	~ 950 base pair amplicon (Figure 1)
Estimated Concentration (post-dilution) by RiboGreen® Measurement (Viral, Cellular and Carrier)²	Report results	19.2 ng per 100 µL (0.19 µg per mL)
Estimated Amount per Vial³	Report Results	19.2 ng
Virus Inactivation 10% of total yield inoculated in SPF embryonated chicken eggs and evaluated for HA activity 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-13665 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 A virus as shown by the absence of HA activity after incubating the entire extract on virus-susceptible SPF embryonated chicken eggs for two passages.

Figure 1: Functional Activity of NR-13665 by RT-PCR Amplification of Matrix Gene



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: PCR product from 1 µL of NR-13665

/Sonia Bjorum Brower/

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Lead Technical Writer or designee, ATCC Federal Solutions

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