

Genomic RNA from Influenza A Virus, A/Puerto Rico/8/1934 (H1N1)

Catalog No. NR-2773

Product Description:

Genomic RNA was isolated from from a preparation of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs infected with influenza A virus, A/Puerto Rico/8/1934 (H1N1) (BEI Resources lot 70013122) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906) and TE buffer, pH 8.0. The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70046994

Manufacturing Date: 09SEP2021

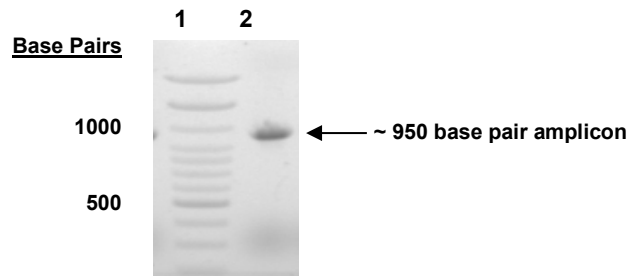
TEST	SPECIFICATIONS	RESULTS
Sequencing of Influenza A Specific Region Matrix gene (~ 920 nucleotides)	≥ 98% identity with Influenza A/Puerto Rico/8/1934 (H1N1) (GenBank: CY105897.1)	100% identity with Influenza A/Puerto Rico/8/1934 (H1N1) (GenBank: CY105897.1)
Functional Activity by RT-PCR Amplification¹ Matrix gene	~ 950 base pair amplicon	~ 950 base pair amplicon (Figure 1)
Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)²	Report results	5.62 ng per 100 µL
Virus Inactivation 10% of total yield inoculated on SPF embryonated chicken eggs and evaluated by hemagglutination assay ³	No virus detected	No virus detected

¹Amplified using iScript™ one-step RT-PCR kit with SYBR® Green (Bio-Rad 170-8892) with 5 µL of NR-2773 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 viruses.

Figure 1: Functional Activity of NR-2773 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-2773

/Heather Couch/
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Program Manager or designee, ATCC Federal Solutions

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