

# Genomic RNA from Influenza A Virus, A/Denver/1/1957 (H1N1)

Catalog No. NR-4230

## Product Description:

Genomic RNA was isolated from a preparation of allantoic fluid from specific-pathogen free (SPF) embryonated chicken eggs infected with influenza A virus, A/Denver/1/1957 (H1N1) (BEI Resources NR-4229 lot 7694222) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is vialled in TE (10 mM Tris-HCl, 1 mM EDTA, pH 8.0) in a background of cellular nucleic acid and carrier RNA.

Lot: 70040838

Manufacturing Date: 10DEC2020

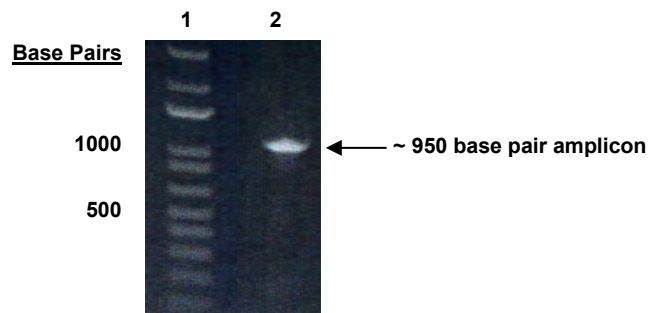
TEST	SPECIFICATIONS	RESULTS
<b>Genotypic Analysis</b> Sequencing of species-specific region (~ 950 nucleotides)	≥ 98% identity with Influenza A1/Denver/1/1957 (GenBank: CY008989.1)	99.8% identity with Influenza A1/Denver/1/1957 (GenBank: CY008989.1)
<b>Functional Activity by RT-PCR Amplification<sup>1</sup></b> Matrix gene	~ 1000 base pair amplicon	~ 1000 base pair amplicon (Figure 1)
<b>Estimated Concentration (post-dilution) by RiboGreen® Measurement (Viral, Cellular and Carrier)<sup>2</sup></b>	Report results	23.3 ng per 100 µL (0.02 µg per mL)
<b>Estimated Amount per Vial</b>	Report Results	23.3 ng
<b>Virus Inactivation</b> 10% of total yield in SPF embryonated chicken eggs and evaluated by hemagglutination assay <sup>3</sup>	No viable virus detected	No viable virus detected

<sup>1</sup>Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-4230 in a 50 µL reaction

<sup>2</sup>Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

<sup>3</sup>Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of influenza A1 as shown by the absence of hemagglutination in SPF chicken eggs for two passages.

Figure 1: Functional Activity of NR-4230 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-4230

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13 AUG 2020

Program Manager or designee, ATCC Federal Solutions

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