

Genomic RNA from Influenza A Virus, A/Uruguay/716/2007 (H3N2)

Catalog No. NR-43756

Product Description:

Genomic RNA was extracted from a preparation of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs (Charles River Laboratories, Norwich, Connecticut, USA) infected with influenza A virus, A/Uruguay/716/2007 (H3N2) (BEI Resources lot 70051832) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70052639

Manufacturing Date: 21JUN2022

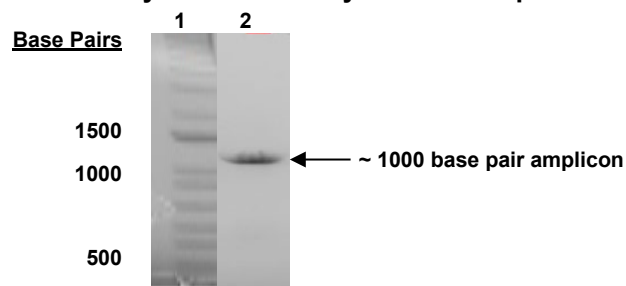
TEST	SPECIFICATIONS	RESULTS
Sequencing of Influenza A Specific Region Matrix gene (~ 950 nucleotides)	≥ 98% identity with A/Uruguay/716/2007 (H3N2) (GenBank: EU716434.1)	99.9% identity with A/Uruguay/716/2007 (H3N2) (GenBank: EU716434.1)
Functional Activity by RT-PCR Amplification¹ Matrix gene	~ 1000 base pair amplicon	~ 1000 base pair amplicon (Figure 1)
Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)²	Report results	4.9 ng per 100 µL (0.05 µg per mL)
Estimated Amount per Vial³	Report Results	4.9 ng
Virus Inactivation 10% of total yield incubated in SPF embryonated chicken eggs ¹ and evaluated by hemagglutination assay 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-43756 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 hemagglutination assay.

Figure 1: Functional Activity of NR-43756 by RT-PCR Amplification



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: PCR product from 1 µL of NR-43756

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26 SEP 2022

Technical Manager or designee, ATCC Federal Solutions

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