

Genomic RNA from Influenza A Virus, A/Hong Kong/8/1968 (H3N2)

Catalog No. NR-2774

Product Description:

Genomic RNA was isolated from a preparation of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs (10-day-old; Charles River, Norwich, Connecticut, USA) infected with influenza A virus, A/Hong Kong/8/1968 (H3N2) (BEI Resources lot 63762269) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70040837

Manufacturing Date: 08JAN2021

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of Influenza A Specific Region Matrix gene (950 nucleotides)	≥ 98% identity with A/Hong Kong/1/1968 (H3N2) (GenBank: CY112250) ¹	≥ 98% identity with A/Hong Kong/1/1968 (H3N2) (GenBank: CY112250) ¹
Functional Activity by RT-PCR Amplification^{2,3} Matrix gene	~ 950 base pair amplicon	~ 950 base pair amplicon (Figure 1)
Virus Inactivation 10% of total yield inoculated in SPF embryonated chicken eggs and evaluated by hemagglutination assay ⁴	No viable virus detected	No viable virus detected

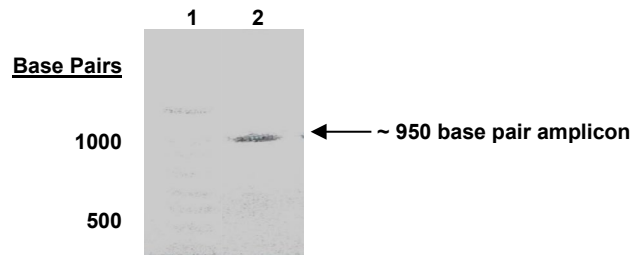
¹There is no sequence information for the Matrix gene of influenza A virus, A/Hong Kong/8/1968 (H3N2) in the NCBI nucleotide database or Influenza Research Database. Sequence information is available for several other influenza A/Hong Kong/1968 (H3N2) isolates, all of which are very closely related.

²Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-2774 in a 50 µL reaction

³No concentration is available for this item. However, the vial material demonstrates functional activity.

⁴Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of influenza viruses as shown by the absence of hemagglutination in SPF chicken eggs for two passages.

Figure 1: Functional Activity of NR-2774 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-2774

/Heather Couch/
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