

Genomic RNA from Influenza B Virus, B/Florida/4/2006

Catalog No. NR-10047

Product Description:

Genomic RNA was isolated from a preparation of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs (10- to 11-day-old; Charles River, Norwich, Connecticut, USA) infected with influenza B virus, B/Florida/4/2006 (BEI Resources lot 70051034) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70055978

Manufacturing Date: 23SEP2022

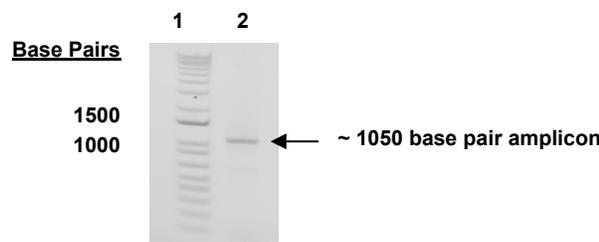
| TEST | SPECIFICATIONS | RESULTS |
|---|--|--|
| Genotypic Analysis Sequencing of species-specific region (~ 970 nucleotides) | ≥ 98% identity with influenza B/Florida/4/2006 (GenBank: CY073895.1) | 99.9% identity with influenza B/Florida/4/2006 (GenBank: CY073895.1) |
| Functional Activity by RT-PCR Amplification¹ Hemagglutinin gene | ~ 1050 base pair amplicon | ~ 1050 base pair amplicon (Figure 1) |
| Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)² | Report results | 9.8 ng per 100 µL (0.098 µg per mL) |
| Estimated Amount per Vial² | Report results | 9.8 ng |
| Virus Inactivation 10% of total yield inoculated on SPF embryonated chicken eggs 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-10047 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 as shown by the absence of hemagglutination activity after incubating the entire extract on SPF embryonated chicken eggs for two passages.

Figure 1: Functional Activity of NR-10047 by RT-PCR Amplification



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: PCR product from 1 µL of NR-10047

/Sonia Bjorum Brower/
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19 JAN 2023

Technical Manager or designee, ATCC Federal Solutions

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