

Certificate of Analysis for NR-45848

Genomic RNA from Influenza B Virus, B/Nevada/03/2011 (Victoria Lineage)

Catalog No. NR-45848

Product Description:

Genomic RNA was isolated from a preparation of of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs infected with influenza B virus, B/Nevada/03/2011 (Victoria Lineage).¹

Lot: 70027288²

Manufacturing Date: 08AUG2019

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 860 nucleotides)	≥ 98% identity with B/Nevada/03/2011 (Victoria Lineage) (GenBank: KC813804.1)	99.6% identity with B/Nevada/03/2011 (Victoria Lineage) (GenBank: KC813804.1)
Functional Activity by RT-PCR Amplification³ Hemagglutinin (HA) gene	~ 1090 base pair amplicon	~ 1090 base pair amplicon (Figure 1)
Pre-Vial Concentration by RiboGreen® Measurement (Viral, Cellular and Carrier)⁴	Report results	747 ng per 100 µL (7.5 µg/mL)
Estimated Amount per Vial⁴	Report Results	747 ng
Virus Inactivation 10% of total yield inoculated in SPF embryonated chicken eggs and evaluated by HA assay ^{1,5}	No viable virus detected	No viable virus detected

¹9- to 11-day-old SPF Embryonated Chicken Eggs acquired from Charles River Laboratories, Wilmington, Massachusetts

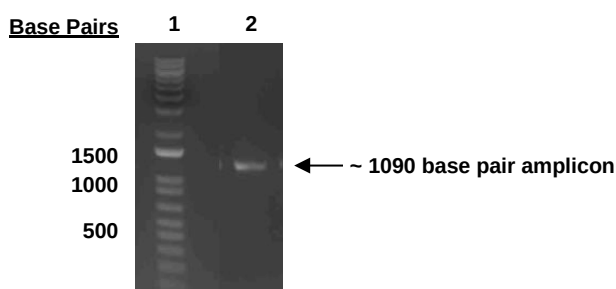
²Nucleic acid was extracted from a preparation of influenza B Virus, B/Nevada/03/2011 (Victoria Lineage) (BEI Resources NR-44023 lot 70019562), using a QIAamp® Viral RNA Mini Kit (Qiagen 52906).

³Reverse transcription was performed using an iScript™ cDNA Synthesis Kit (Bio-Rad 170-8891) with 10 µL of NR-45848 in a 20 µL reaction; PCR was performed using iTaq™ DNA Polymerase (Bio-Rad 170-8870) with 5 µL of cDNA in a 50 µL reaction.

⁴Measurement is determined pre-vial (prior to dilution) due to the limit of detection of the quantification method

⁵Use 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 inoculation of the entire extract into SPF embryonated chicken eggs.

Figure 1: Functional Activity of NR-45848 by RT-PCR Amplification of Hemagglutinin Gene



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: PCR product from 0.5 µL of NR-45848

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/Heather Couch/

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26 DEC 2019

Program Manager or designee, ATCC Federal Solutions

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