

Genomic RNA from Influenza B Virus, B/Baltimore/JH002/2021

Catalog No. NR-59588

Product Description:

Genomic RNA was isolated from a preparation of cell lysate and supernatant from Madin-Darby canine kidney SIAT-1 (MDCK-SIAT1) cells infected with influenza B virus, B/Baltimore/JH002/2021 using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70063757

Manufacturing Date: 01NOV2023

| TEST | SPECIFICATIONS | RESULTS |
|---|------------------------------|---|
| Genotypic Analysis Sequencing of species-specific region Hemagglutinin gene (~ 710 nucleotides) | Consistent with source virus | Consistent with source virus ¹ |
| Functional Activity by RT-PCR Amplification² Hemagglutinin gene | ~ 1000 base pair amplicon | ~ 1000 base pair amplicon |
| Estimated Concentration (post-dilution) by RiboGreen® Measurement (Viral, Cellular and Carrier)³ | Report results | 5.3 ng per 100 µL (0.0531 µg/mL) |
| Estimated Amount per Vial³ | Report results | 5.3 ng |
| Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System (Post vial; 12 replicates) | Report results | 1.7 × 10 ⁸ NDU/mL ⁴ |
| Virus Inactivation 10% of total yield inoculated on MDCK-SIAT1 cells and evaluated for cytopathic effect and HA after serial passage ⁵ | No viable virus detected | No viable virus detected |

¹Sequence information for influenza B virus B/Baltimore/JH002/2021 is not available in the NCBI database; nucleotide sequence obtained for NR-59588 lot 70063757 is identical to the source virus.

²Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-59588 in a 50 µL reaction

³Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

⁴NDU; NAAT-detectable units

⁵Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of influenza A viruses as shown by the absence of cytopathic effect (CPE) and HA after plating the entire extract on virus-susceptible cells for two passages.

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10 APR 2024

Technical Manager or designee, ATCC Federal Solutions

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