

**Genomic RNA from Influenza B Virus, B/Macha/I1080/2021**

**Catalog No. NR-59590**

**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/Macha/I1080/2021 using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

**Lot: 70063759**

**Manufacturing Date: 10JAN2024**

TEST	SPECIFICATIONS	RESULTS
<b>Genotypic Analysis</b> Sequencing of species-specific region Hemagglutinin gene (~ 880 nucleotides)	Consistent with source virus	Consistent with source virus <sup>1</sup>
<b>Functional Activity by RT-PCR Amplification<sup>2</sup></b> Hemagglutinin gene	~ 1000 base pair amplicon	~ 1000 base pair amplicon
<b>Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)<sup>3</sup></b>	Report results	4.6 ng per 100 µL (0.0462 µg/mL)
<b>Estimated Amount per Vial<sup>3</sup></b>	Report results	4.6 ng
<b>Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System</b> (Post vial; 9 replicates)	Report results	4.8 × 10 <sup>8</sup> NDU/mL <sup>4</sup>
<b>Virus Inactivation</b> 10% of total yield inoculated on MDCK-SIAT1 cells and evaluated for cytopathic effect and HA after serial passage <sup>5</sup>	No viable virus detected	No viable virus detected

<sup>1</sup>Sequence information for influenza B virus B/Macha/I1080/2021 is not available in the NCBI database; nucleotide sequence obtained for NR-59590 lot 70063759 is identical to the source virus.

<sup>2</sup>Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-59590 in a 50 µL reaction

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

<sup>4</sup>NDU; NAAT-detectable units

<sup>5</sup>Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of influenza B 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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11 APR 2024

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