

Genomic RNA from Influenza A Virus, A/bovine/Ohio/B24OSU-439/2024 (H5N1), Tissue Culture Adapted

Catalog No. NR-59885

Product Description:

Genomic RNA was isolated from a preparation of cell lysate and supernatant from Madin-Darby canine kidney (MDCK) cells infected with influenza A virus, A/bovine/Ohio/B24OSU-439/2024 (H5N1), tissue culture adapted (BEI Resources NRS-59872 lot 70070369) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70071628

Manufacturing Date: 27AUG2024

TEST	SPECIFICATIONS	RESULTS
Next-Generation Sequencing (NGS) of Complete Genome Using Illumina® MiSeq™ Platform Hemagglutinin gene (~ 1750 nucleotides) Matrix protein 1 and BM2 protein genes (~ 1000 nucleotides)	≥ 98% identity with A/bovine/Ohio/B24OSU-439/2024 (H5N1) (GenBank: PP836471) ≥ 98% identity with A/bovine/Ohio/B24OSU-439/2024 (H5N1) (GenBank: PP836474)	100% identity with A/bovine/Ohio/B24OSU-439/2024 (H5N1) (GenBank: PP836471) 100% identity with A/bovine/Ohio/B24OSU-439/2024 (H5N1) (GenBank: PP836474)
Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)¹	Report results	5.94 ng per 100 µL (0.004 µg/mL)
Estimated Amount per Vial¹	Report results	5.94 ng
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System (Post vial; 15 replicates)	Report results	6.3 × 10 ⁷ genome equivalents per mL
Virus Inactivation 10% of total yield inoculated on MDCK cells and evaluated for cytopathic effect and by qPCR after serial passage ²	No viable virus detected	No viable virus detected

¹Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

²Use 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 viral RNA expression by qPCR after plating the entire extract on virus-susceptible cells for three passages.

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22 OCT 2024

Technical Manager or designee, ATCC Federal Solutions

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