

Certificate of Analysis for NR-43022

Genomic RNA from Influenza A Virus, A/shorebird/Delaware/172/2006 (H16N3)

Catalog No. NR-43022

Product Description: Genomic RNA was isolated from a preparation of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs¹ infected with influenza A virus, A/shorebird/Delaware/172/2006 (H16N3).

Lot²: 62432869

Manufacturing Date: 13MAR2014

TEST	SPECIFICATIONS	RESULTS
Sequencing of Influenza A Specific Region Matrix gene (913 nucleotides)	Consistent with A/shorebird/Delaware/172/2006 (H16N3) Consistent with NR-21666	100% identity with A/shorebird/Delaware/172/2006 (H16N3) (GenBank: CY130111) Consistent with NR-21666
Functional Activity by RT-PCR Amplification ^{3,4}	~ 1025 bp amplicon	~ 1025 bp amplicon (See Figure 1)
Total RNA Content by RiboGreen® Measurement (Viral, Cellular and Carrier)	Report results	51 ng per 100 µL
Virus Inactivation 10% of total yield incubated in SPF embryonated chicken eggs ¹ and evaluated by hemagglutination assay ⁵	No virus detected	No virus detected

¹9- to 11-day-old SPF Embryonated Chicken Eggs acquired from B&E Eggs, York Springs, Pennsylvania

²Nucleic acid was extracted from a preparation of influenza A virus, A/shorebird/Delaware/172/2006 (H16N3) (BEI Resources NR-21666, Lot 59807778), using a QIAamp® Viral RNA Mini Kit (Qiagen 52906).

³Amplified using iScript™ One-Step RT-PCR Kit with SYBR® Green (Bio-Rad 170-8892) with 5µL of NR-43022 in a 50 µL reaction

⁴The primers are described in Hoffmann, E., et al. "Universal Primer Set for the Full-Length Amplification of All Influenza A Viruses." *Arch. Virol.* 146 (2001): 2275-2289. PubMed: 11811679.

⁵Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of influenza viruses.

Date: 12 MAY 2014

Signature: *Michael R. Gynther*

Title: Technical Manager, BEI Authentication or designee

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