

# Certificate of Analysis for NR-43020

**Genomic RNA from Influenza A Virus, A/mallard/Astrakhan/263/1982 (H14N5)**

**Catalog No. NR-43020**

**Product Description:** Genomic RNA was isolated from a preparation of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs<sup>1</sup> infected with influenza A virus, A/mallard/Astrakhan/263/1982 (H14N5).

**Lot<sup>2</sup>: 62359755**

**Manufacturing Date: 21FEB2014**

TEST	SPECIFICATIONS	RESULTS
<b>Sequencing of Influenza A Specific Region</b> Matrix gene (852 nucleotides)	Consistent with A/mallard/Astrakhan/263/1982 (H14N5) Consistent with NR-21664	99% identity with A/mallard/Astrakhan/263/1982 (H14N5) (GenBank: CY014605) Consistent with NR-21664
<b>Functional Activity by RT-PCR Amplification<sup>3,4</sup></b>	~ 1025 bp amplicon	~ 1025 bp amplicon (See Figure 1)
<b>Total RNA Content by RiboGreen<sup>®</sup> Measurement (Viral, Cellular and Carrier)</b>	Report results	146 ng per 100 µL
<b>Virus Inactivation</b> 10% of total yield incubated in SPF embryonated chicken eggs <sup>1</sup> and evaluated by hemagglutination assay <sup>5</sup>	No virus detected	No virus detected

<sup>1</sup>9- to 11-day-old SPF Embryonated Chicken Eggs acquired from B&E Eggs, York Springs, Pennsylvania

<sup>2</sup>Nucleic acid was extracted from a preparation of influenza A virus, A/mallard/Astrakhan/263/1982 (H14N5) (BEI Resources NR-21664, Lot 59807774), using a QIAamp<sup>®</sup> Viral RNA Mini Kit (Qiagen 52906).

<sup>3</sup>Amplified using iScript<sup>™</sup> One-Step RT-PCR Kit with SYBR<sup>®</sup> Green (Bio-Rad 170-8892) with 5µL of NR-43020 in a 50 µL reaction

<sup>4</sup>The 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.

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

**Date:** 28 APR 2014

**Signature:**



**Title:**

Technical Manager, BEI Authentication or designee

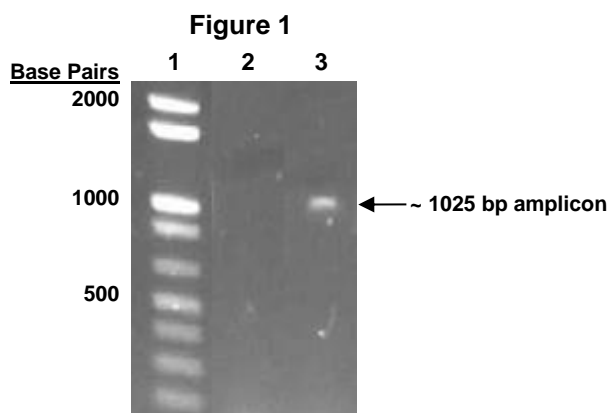
ATCC<sup>®</sup>, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC<sup>®</sup>'s knowledge.

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You are authorized to use this product for research use only. It is not intended for human use.



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Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder  
 Lane 2: Negative control  
 Lane 3: NR-43020