

**Genomic RNA from Influenza A virus, A/turkey/Massachusetts/3740/1965 (H6N2)**

**Catalog No. NR-43013**

**Product Description:**

Genomic RNA was isolated from a preparation of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs (9- to 11-day-old SPF Embryonated Chicken Eggs from B&E Eggs, York Springs, Pennsylvania) infected with influenza A virus, A/turkey/Massachusetts/3740/1965 (H6N2) (BEI Resources NR-21654 lot 59772072) using a QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

**Lot: 62244654**

**Manufacturing Date: 20DEC2013**

TEST	SPECIFICATIONS	RESULTS
<b>Genotypic Analysis</b> Sequencing of species-specific region (~ 960 nucleotides)	≥ 98% identity with A/turkey/Massachusetts/3740/ 1965 (H6N2) (GenBank: CY130031)	100% identity with A/turkey/Massachusetts/3740/ 1965 (H6N2) (GenBank: CY130031)
<b>Functional Activity by RT-PCR Amplification<sup>1,2</sup></b> Matrix gene	~ 1030 base pair amplicon	~ 1030 base pair amplicon (Figure 1)
<b>Estimated Concentration (post-dilution) by RiboGreen® Measurement (Viral, Cellular and Carrier)<sup>3</sup></b>	Report results	121 ng per 100 µL (1.21 µg/mL)
<b>Estimated Amount per Vial<sup>3</sup></b>	Report Results	121 ng
<b>Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System</b> (Post vial; 9 replicates)	Report results	2.53 × 10 <sup>8</sup> genome copies/mL
<b>Virus Inactivation</b> 10% of total yield incubated in SPF embryonated chicken eggs and evaluated by hemagglutination assay <sup>4</sup>	No viable virus detected	No viable virus detected

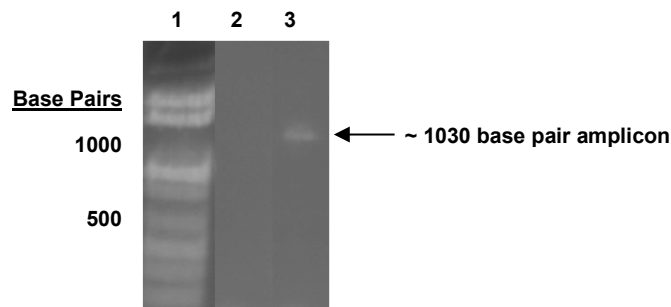
<sup>1</sup>Amplified using iScript™ One-Step RT-PCR Kit with SYBR® Green (Bio-Rad® 170-8892) with 5 µL of NR-43013 in a 50 µL reaction

<sup>2</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>3</sup>Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

<sup>4</sup>Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of influenza viruses.

**Figure 1: Functional Activity of NR-43013 by RT-PCR Amplification of Matrix Gene**



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder  
 Lane 2: PCR product from Negative Control  
 Lane 3: PCR product from NR-43013

/Heather Couch/

Heather Couch

05 JAN 2021

Program Manager or designee, ATCC Federal Solutions

ATCC®, 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®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

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

