

Genomic RNA from Influenza A Virus, A/Uruguay/716/2007 (H3N2)

Catalog No. NR-43756

Product Description: Genomic RNA was extracted from a preparation of pooled allantoic fluid from specific pathogen free embryonated chicken eggs¹ infected with influenza A virus, A/Uruguay/716/2007 (H3N2).

Lot²: 70015822

Manufacturing Date: 01JUN2018

TEST	SPECIFICATIONS	RESULTS
Sequencing of Influenza A Specific Region Matrix gene (~ 930 base pairs)	≥ 98% identity with A/Uruguay/716/2007 (H3N2) (GenBank: EU716434) Consistent with source organism (BEI Resources NR-42003)	100% identity with A/Uruguay/716/2007 (H3N2) (GenBank: EU716434) Consistent with NR-42003
Functional Activity by RT-PCR Amplification³ Matrix gene	~ 1030 base pair amplicon	~ 1030 base pair amplicon (Figure 1)
Pre-Vial Concentration by RiboGreen[®] Measurement (Viral, Cellular and Carrier)⁴	Report results	99 ng per 100 µL (0.99 µg/mL)
Estimated Amount per Vial⁴	Report Results	99 ng
Virus Inactivation 10% of total yield incubated in SPF embryonated chicken eggs ¹ and evaluated by hemagglutination assay ⁵	No viable virus detected	No viable virus detected
Mycoplasma Contamination DNA detection by PCR of extracted Test Article	None detected	None detected

¹10-day-old SPF Embryonated Chicken Eggs acquired from Charles River, Norwich, Connecticut, USA

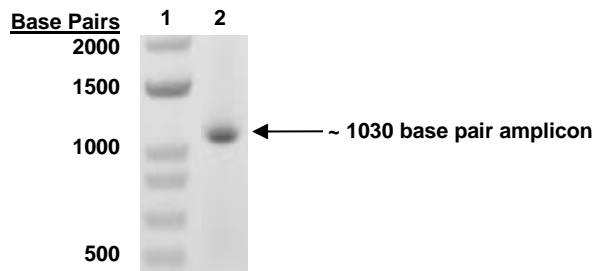
²Nucleic acid was extracted from a preparation of influenza A virus, Uruguay/716/2007 (H3N2) (BEI Resources NR-42003 lot 70010871) using a QIAamp[®] Viral RNA Mini Kit (Qiagen 52906).

³Amplified using iTaq[™] Universal SYBR[®] Green One-Step Kit (Bio-Rad 172-5151) with 5 µL of NR-43756 in a 50 µL reaction

⁴Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method.

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

Figure 1: Functional Activity of NR-43756 by RT-PCR Amplification of Matrix gene



Lane 1: Invitrogen[™] TrackIt[™] 1 Kb Plus DNA Ladder

Lane 2: PCR product from 1 µL of NR-43756

/Heather Couch/

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10 SEP 2018

Program Manager or designee, ATCC Federal Solutions

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