b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-43021

Genomic RNA from Influenza A Virus, A/shearwater/Australia/2576/1979 (H15N9)

Catalog No. NR-43021

Product Description: Genomic RNA was isolated from a preparation of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs[1] infected with influenza A virus, A/shearwater/Australia/2576/1979 (H15N9).

Lot[2]: 62385688 **Manufacturing Date: 21FEB2014**

TEST	SPECIFICATIONS	RESULTS
Sequencing of Influenza A Specific Region Matrix gene (945 nucleotides)	Consistent with A/shearwater/Australia/2576/1979 (H15N9) Consistent with NR-21665	99% identity with A/shearwater/Australia/2576/1979 (H15N9) (GenBank: CY130103) Consistent with NR-21665
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	138 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

[1]9- to 11-day-old SPF Embryonated Chicken Eggs acquired from B&E Eggs, York Springs, Pennsylvania
[2]Nucleic acid was extracted from a preparation of influenza A virus, A/shearwater/Australia/2576/1979 (H15N9) (BEI Resources NR-21665, Lot 59807777), using a QIAamp® Viral RNA Mini Kit (Qiagen 52906).
[3]Amplified using iScript™ One-Step RT-PCR Kit with SYBR® Green (Bio-Rad 170-8892) with 5µL of NR-43021 in a 50 µL reaction
[4]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.
[5]Use of the QIAamp® 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®, 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.

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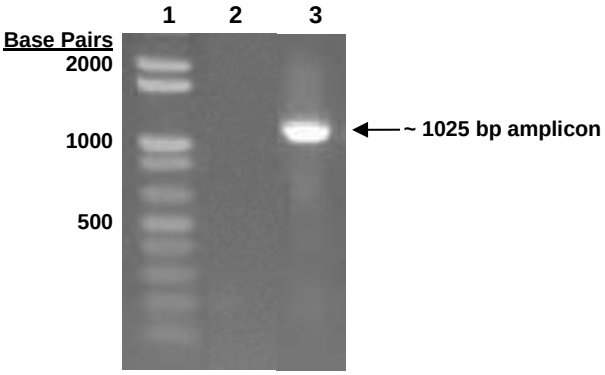
Figure 1



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: Negative control
Lane 3: NR-43021

BEI Resources
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