

Certificate of Analysis for NR-2775

Genomic RNA from Influenza A Virus, A/Japan/305/57 (H2N2)

Catalog No. NR-2775

Product Description: Genomic RNA was isolated from a preparation of pooled chicken allantoic fluid¹ infected with influenza A virus, A/Japan/305/57 (H2N2).

Lot²: 7662503 Manufacturing Date: 22JAN2007

| TEST | SPECIFICATIONS | RESULTS |
|---|------------------------|-----------------------------------|
| Sequencing of Influenza A Specific Region | | |
| Hemagglutinin gene (~ 1280 nucleotides) | Influenza A virus (H2) | Influenza A virus (H2) |
| Non-structural gene (~ 640 nucleotides) | Influenza A virus | Influenza A virus |
| Matrix gene (~ 690 nucleotides) | Influenza A virus | Influenza A virus |
| Functional Activity by RT-PCR Amplification ^{3,4} | ~ 1000 bp amplicon | ~ 1000 bp amplicon (See Figure 1) |
| Total RNA Content by RiboGreen® Measurement (Viral, Cellular and Carrier) | Report results | 32.6 ng per 100 μL |
| Total DNA Content by PicoGreen® Measurement (Viral and Cellular) | Report results | 5.4 ng per 100 μL |
| Virus Inactivation | | |
| 10% of total yield evaluated by hemagglutination assay ⁵ | No virus detected | No virus detected |

¹10-11-day-old SPF Fertile Chicken Eggs acquired from B&E Eggs, York Springs, PA.

Date: 25 FEB 2011 Signature

Title: Technical Manager, BEI Authentication or designee

crothy C. Young

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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²Nucleic acid was extracted from a preparation of influenza A virus, A/Japan/305/57 (H2N2) (BEI Resources NR-347; Lot 4734168) using a Qiagen QIAamp[®] Viral RNA Mini kit.

³Amplified using 1:25 dilution of NR-2775 and One-Step RT-PCR Kit (Qiagen 210212).

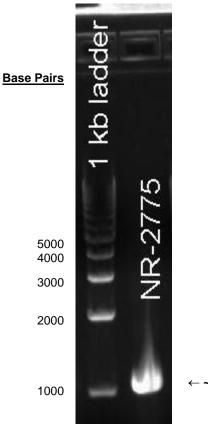
⁴The primers are described in Hoffmann, E., et al. "Universal Primer Set for the Full-Length Amplification of All Influenza A Viruses." <u>Arch. Virol.</u> 146 (2001): 2275–2289. PubMed: 11811679.

⁵This extraction procedure has been shown to consistently inactivate 100% of influenza viruses.



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Figure 1



← ~ 1000 bp amplicon

Bio-Rad EZ Load™ 1kb Molecular Ruler

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