b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-2764

Genomic RNA from Influenza A Virus, A/WS/1933 (H1N1) (Tissue Culture Adapted)

Catalog No. NR-2764

Product Description: Genomic RNA was isolated from a preparation of cell lysate and supernatant from Madin-Darby canine kidney cells[1] infected with influenza A virus, A/WS/1933 (H1N1).

Lot[2]: 7723968 **Manufacturing Date: 22OCT2007**

TEST	SPECIFICATIONS	RESULTS
Sequencing of Influenza A Specific Region Matrix gene (~ 270 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	2,123 ng per 100 µL
Total DNA Content by PicoGreen® Measurement (Viral and Cellular)	Report results	186 ng per 100 µL
Virus Inactivation 10% of total yield inoculated on MDCK[1] and evaluated for cytopathic effect.[5]	No virus detected	No virus detected
Sodium Azide Content	Report results	≤ 0.004%

[1]Madin-Darby canine kidney cells (MDCK; ATCC® CCL-34™).
[2]Nucleic acid was extracted from a preparation of influenza A virus, A/WS/1933(H1N1) (tissue culture adapted; BEI Resources NR-2759; Lot 7677043) using a Qiagen QIAamp® Viral RNA Mini kit (Qiagen 52906).
[3]Amplified using 1:25 dilution of NR-2764 and One-Step RT-PCR Kit (Qiagen 210212).
[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]This extraction procedure has been shown to consistently inactivate 100% of influenza viruses.

Date: 09 FEB 2015 **Signature:** Michael R. Gyrla

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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BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898