Influenza A Virus, A/WS/33 (H1N1)  
(Tissue-culture adapted)

Catalog No. NR-2759  
(Derived from ATCC® VR-1520™)

For research use only. Not for human use.

Contributor:  
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Product Description:  
Virus Classification: Orthomyxoviridae, Influenzavirus A  
Species: Influenza A virus  
Strain/Isolate: A/WS/33 (H1N1) [Wilson-Smith/33 (H1N1)]  
(tissue-culture adapted)  
Source: Derived from ATCC® VR-1520™. ATCC® VR-1520™ was derived through tissue culture adaptation of ATCC® 825™, which was isolated in 1933 from throat washings of a patient with influenza.¹  
Comments: Influenza A virus, A/WS/33 (H1N1) was deposited at ATCC® by W. Adrian Chappell, Ph.D. The complete genomic sequence of influenza A/WS/33 (H1N1) has been submitted (GenBank: CY009604 to CY009611).²

Influenza A virus, A/WS/33 (H1N1) is the first human isolate of influenza virus and considered to have descended from the strain responsible for the 1918 pandemic.³

Material Provided:  
Each vial contains approximately 1 mL of cell lysate and supernatant from Madin-Darby canine kidney cells (MDCK; ATCC® CCL-34™) infected with influenza A virus, A/WS/33 (H1N1) (tissue-culture adapted).  

Note: If homogeneity is required for your intended use, please plaque-purify prior to initiating work.

Packaging/Storage:  
NR-2759 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:  
Host: MDCK cells (ATCC® CCL-34™)  
Growth Medium: Minimum Essential Medium supplemented with 1 μg/mL TPCK-treated trypsin and 0.125% Bovine Serum Albumin, or equivalent (lot-specific details are on the Certificate of Analysis)  
Infection: Cells should be 80–90% confluent (not 100% confluent)  
Incubation: 3 to 5 days at 33°C to 35°C and 5% CO₂  
Cytopathic Effect: Cell rounding and detachment

Citation:  
Acknowledgment for publications should read “The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Influenza A Virus, A/WS/33 (H1N1) (tissue-culture adapted), NR-2759.”

Biosafety Level: 2  

Disclaimers:  
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References:  

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