Influenza A Virus, A/NWS/33 (H1N1)

Catalog No. NR-2555
(Derived from ATCC® VR-219™)

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Contributor:
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Product Description:

Virus Classification: Orthomyxoviridae, Influenzavirus A
Agent: Influenza A virus
Strain/Isolate: A/NWS/33 (H1N1)
Source: Derived from the A/WS/1933 strain 1 of influenza A
by intracerebral passage in mice 2

Comments: Influenza A virus, A/NWS/33 (H1N1) was
deposited at ATCC® in 1961 by Robert R. Wagner, M.D.,
Head, Division of Virology, Department of Microbiology,
The Johns Hopkins University School of Medicine,
Baltimore, Maryland.

The neurotropic/neurovirulent A/NWS/33 (H1N1) strain
demonstrates a close antigenic relationship with the parent
A/WS/33 strain in cross hemagglutination inhibition assays;
however, A/NWS/33 is able to infect a large range of cell
types, due to changes in protein/gene structure during
adaptation to mouse brain, which are not infected by its
parent, A/WS/33. 3–6

Material Provided:
Each vial contains approximately 1 mL of pooled allantoic
fluid from specific-pathogen free (SPF) embryonated
chicken eggs infected with influenza A virus, A/NWS/33
(H1N1).

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

Packaging/Storage:
NR-2555 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: 10-day-old SPF embryonated chicken eggs
Infection: Embryonated chicken eggs must be candled for
viability prior to inoculation
Incubation: 1–3 days at 35°C in a humidified chamber
without CO₂
Effect: Hemagglutination activity using chicken red blood
cells and allantoic fluid from infected embryonated
chicken eggs

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/NWS/33 (H1N1), NR-2555.”

Biosafety Level: 2
Appropriate safety procedures should always be used with
this material. Laboratory safety is discussed in the following
publication: U.S. Department of Health and Human Services,
Public Health Service, Centers for Disease Control and
Prevention, and National Institutes of Health. Biosafety in
Microbiological and Biomedical Laboratories. 5th ed.

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References:
Obtained from Influenza Patients.” Lancet 2 (1933): 66–
68.


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