

Product Information Sheet for NR-3682

Kilbourne F64: A/WSN/1933 (HA, NA) x A/NWS/1934 x A/Rockefeller Institute/5/1957 (H1N1), Reassortant NWS-F (R12)

Catalog No. NR-3682

Derived from NIAID Catalog No. V-331-0TC425

For research use only. Not for human use.

Contributor:

National Institute of Allergy and Infectious Diseases (NIAID),
National Institutes of Health (NIH)

Manufacturer:

BEI Resources

Product Description:

Virus Classification: *Orthomyxoviridae, Influenzavirus A*

Species: Influenza A virus

Reassortant: A/WSN/1933 (HA, NA) x A/NWS/1934 x A/Rockefeller Institute/5/1957 (H1N1) (Kilbourne F64)¹⁻³

Parents: NWS-F (H1N2) and A/WSN/1933 (H1N1) M- (ts51)

Comments: The hemagglutinin (HA) and neuraminidase (NA) genes of NR-3682 are derived from influenza A/WSN/1933 (H1N1) M- (ts51), which is Kilbourne F66 and is available as BEI Resources NR-3687.⁴ NWS-F (Kilbourne F63; BEI Resources NR-3478) is A/NWS/1934 (HA) x A/Rockefeller Institute/5/1957 (NA) (H1N2),⁵ and donated the RNA 7 segment from A/Rockefeller Institute/5/1957 (H2N2). The remaining five genes may be derived from either A/NWS/1934 (H1N1) or A/WSN/1933 (H1N1), but not from A/Rockefeller Institute/5/1957 (H2N2), since only the matrix and neuraminidase genes of reassortant NWS-F were donated by A/Rockefeller Institute/5/1957 (H2N2).

Note: The HA donor of NWS-F (H1N2) is designated "A/NWS/34" in the Kilbourne Archive.⁵ According to Kilbourne, the nomenclature for neurotropic (NWS and WSN) mutants of the original A/Wilson-Smith/1933 (H1N1) human influenza isolate does not usually require the insertion of a date, but if a date is given it should be 1933.⁶ Unfortunately, the usage of A/NWS/1933 and A/NWS/1934 is inconsistent, both in the Kilbourne collection and in the literature.

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from Madin-Darby Canine Kidney (MDCK) cells (ATCC® CCL-34) infected with reassortant influenza A virus, A/WSN/1933 (HA, NA) x A/NWS/1934 x A/Rockefeller Institute/5/1957 (H1N1).

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

Packaging/Storage:

NR-3682 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: Dulbecco's Modified Eagle Medium supplemented with 0.1% bovine serum albumin and 0.025 µg/mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin

Infection: Cells should be 100% confluent

Incubation: 2 to 7 days at 35°C and 5% CO₂

Cytopathic Effect: Cell rounding, clumping, and detachment

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Kilbourne F64: A/WSN/1933 (HA, NA) x A/NWS/1934 x A/Rockefeller Institute/5/1957 (H1N1), Reassortant NWS-F (R12), NR-3682."

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. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

1. http://www.flu-archive.org/data_sheets/F64.doc
2. <http://www.flu-archive.org/>
3. http://www.flu-archive.org/search/results.pl?search_string=&join_type=and
4. http://www.flu-archive.org/data_sheets/F66.doc
5. http://www.flu-archive.org/data_sheets/F63.doc
6. <http://www.flu-archive.org/downloads.html> (Archive and Catalog of Influenza Virus Reassortants and Mutants).

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