

Product Information Sheet for NR-3521

Kilbourne F36: A/swine/Cambridge/1947 (HA) x A/equine/Prague/1/1956 (NA) x A/Puerto Rico/8/1934 (H1N7)

Catalog No. NR-3521

Derived from NIAID Catalog No. V-331-0E5033

For research use only. Not for human use.

Contributor:

National Institute of Allergy and Infectious Diseases, National Institutes of Health

Manufacturer:

BEI Resources

Product Description:

Virus Classification: *Orthomyxoviridae, Influenzavirus A*

Species: Influenza A virus

Reassortant: A/swine/Cambridge/1947 (HA) x A/equine/Prague/1/1956 (NA) x A/Puerto Rico/8/1934 (H1N7) (Kilbourne F36)¹⁻³

Parents: A/swine/Cambridge/1947 (H1N1) and X-80R (H3N7)

Comments: X-80R (Kilbourne F162) is available as BEI Resources NR-3669.

The following strains were involved in the derivation of NR-3521:

A/swine/Cambridge/1947 (H1N1)
A/equine/Prague/1/1956 (H7N7)
A/Puerto Rico/8/1934 (H1N1)
A/Philippines/2/1982 (H3N2)

Sequencing at BEI Resources of a portion of the matrix (M) gene (RNA segment 7) from NR-3521 indicates that the matrix gene is derived from A/Puerto Rico/8/1934 (H1N1). The derivation of the five genes encoding the remaining internal proteins has not been determined.

The N7 protein from A/equine/Prague/1/1956 (H7N7) has been reported to have cross-reactivity with N1.

Material Provided:

Each vial contains approximately 1 mL of pooled allantoic fluid from specific-pathogen free (SPF) embryonated chicken eggs infected with (Kilbourne F36) influenza A virus, A/swine/Cambridge/1947 (HA) x A/equine/Prague/1/1956 (NA) x A/Puerto Rico/8/1934 (H1N7).

Packaging/Storage:

NR-3521 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -70°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: 9 to 11-day-old SPF embryonated chicken eggs

Infection: Embryonated chicken eggs must be candled for viability prior to inoculation

Incubation: 2 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 BEI Resources, NIAID, NIH: Kilbourne F36: A/swine/Cambridge/1947 (HA) x A/equine/Prague/1/1956 (NA) x A/Puerto Rico/8/1934 (H1N7), NR-3521."

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, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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References:

1. http://www.flu-archive.org/data_sheets/F36.doc
2. <http://www.flu-archive.org/>
3. http://www.flu-archive.org/search/results.pl?search_string=&join_type=and

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