

Kilbourne F174:

**A/turkey/Massachusetts/3740/1975 (HA) x
A/Taiwan/1/1986 (NA) x A/Puerto
Rico/8/1934 (H6N1), Reassortant X-94**

Catalog No. NR-3642

Derived from NIAID Catalog No. V-331-0E5528

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/turkey/Massachusetts/3740/1975 (HA) x
A/Taiwan/1/1986 (NA) x A/Puerto Rico/8/1934 (H6N1)
(Kilbourne F174; X-94)¹⁻³

Parents: A/Taiwan/1/1986 (H1N1) and X-88 (H6N2)

Comments: NR-3642 is a neuraminidase (NA)-specific antigenic hybrid developed by crossing influenza A/Taiwan/1/1986 (H1N1) with the previously derived reassortant X-88 (Kilbourne F169; BEI Resources NR-3589), that carried the H6 hemagglutinin (HA) gene from A/turkey/Massachusetts/3740/1975 (H6N2) and six genes encoding internal virion and non-structural proteins from A/Puerto Rico/8/1934 (H1N1).^{4,5} Except for the HA and NA genes, the origin of the genome segments in reassortant X-94 had not been determined prior to deposit. Nucleotide sequencing at BEI Resources of portions of the matrix (M) gene (RNA 7), nucleocapsid (NP) gene (RNA 5), and polymerase basic subunit 1 (PB1) gene (RNA 2) from NR-3642 indicates that these genes are derived from A/Taiwan/1/1986 (H1N1). The genes encoding the remaining internal proteins and the nonstructural protein may have been derived from either A/Puerto Rico/8/1934 (H1N1) or A/Taiwan/1/1986 (H1N1). Thus, it is possible that NR-3642 does not carry any A/Puerto Rico/8/1934 (H1N1)-derived genome segments.

Material Provided:

Each vial contains approximately 1 mL of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs infected with reassortant influenza A virus, A/turkey/Massachusetts/3740/1975 (HA) x A/Taiwan/1/1986 (NA) x A/Puerto Rico/8/1934 (H6N1).

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

Packaging/Storage:

NR-3642 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: 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

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 F174: A/turkey/Massachusetts/3740/1975 (HA) x A/Taiwan/1/1986 (NA) x A/Puerto Rico/8/1934 (H6N1), Reassortant X-94, NR-3642."

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/bmb15/index.htm.

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References:

1. http://www.flu-archive.org/data_sheets/F174.doc
2. <http://www.flu-archive.org/>
3. http://www.flu-archive.org/search/results.pl?search_string=&join_type=and
4. Gallagher, M., et al. "Isolation of Immunogenic Neuraminidases of Human Influenza Viruses by a Combination of Genetic and Biochemical Procedures." *J. Clin. Microbiol.* 20 (1984): 89-93. PubMed: 6205018.
5. http://www.flu-archive.org/data_sheets/F169.doc

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