

Kilbourne F53:
A/turkey/Massachusetts/3740/1975 (HA) x
A/Texas/36/1991 (NA) x A/Puerto
Rico/8/1934 (H6N1)

Catalog No. NR-3648

Derived from NIAID Catalog No. V-331-0E5536

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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/Texas/36/1991 (NA) x A/Puerto Rico/8/1934 (H6N1)
 (Kilbourne F53)¹⁻³

Parents: X-113 (H1N1) and X-88 (H6N2)

Comments: NR-3648 was developed as an N1-specific reagent virus by crossing two previously derived influenza A virus reassortants. The X-88 parent (Kilbourne F169; BEI Resources NR-3589) donated the H6 HA gene from A/turkey/Massachusetts/3740/1975 (H6N2),^{4,5} while the X-113 parent (Kilbourne F76; BEI Resources NR-3579) is A/Texas/36/1991 (HA, NA) x A/Puerto Rico/8/1934 (H1N1).⁶ The matrix (M) gene (RNA 7) of NR-3648 is known to be derived from A/Puerto Rico/8/1934 (H1N1). The five genes encoding the remaining internal proteins and the nonstructural protein may have been derived from either A/Texas/36/1991 (H1N1) or A/Puerto Rico/8/1934 (H1N1).

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/Texas/36/1991 (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-3648 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 F53: A/turkey/Massachusetts/3740/1975 (HA) x A/Texas/36/1991 (NA) x A/Puerto Rico/8/1934 (H6N1), NR-3648."

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/F53.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
6. http://www.flu-archive.org/data_sheets/F76.doc

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