

Kilbourne F34: A/Texas/36/1991 (HA) x A/equine/Prague/1/1956 (NA) x A/Puerto Rico/8/1934 (H1N7)

Catalog No. NR-3573

Derived from NIAID Catalog No. V-331-0E5356

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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/Texas/36/1991 (HA) x A/equine/Prague/1/1956 (NA) x A/Puerto Rico/8/1934 (H1N7) (Kilbourne F34)¹⁻³

Parents: X-113 (H1N1) and A/equine/Prague/1/1956 (H7N7)(R)

Comments: NR-3573 is an antigenic hybrid reassortant virus that carries the H1 hemagglutinin (HA) of influenza A virus, A/Texas/36/1991 (H1N1) and the N7 neuraminidase (NA) of influenza A virus, A/equine/Prague/1/1956 (H7N7). The direct antecedents of NR-3573 are both reassortant influenza viruses. Reassortant X-113 (Kilbourne F76; BEI Resources NR-3579)⁴ is A/Texas/36/1991 (HA, NA) x A/Puerto Rico/8/1934 (H1N1). The H7N7(R) parent (Kilbourne F58; BEI Resources NR-3649)⁵ is a high yield reassortant that carries the HA and NA genes of A/equine/Prague/1/1956 (H7N7). It was derived from six different influenza strains through nine rounds of reassortment and selection. Nucleotide sequencing at BEI Resources of a portion of the matrix (M) gene (RNA 7) from NR-3573 indicates that the M gene is derived from A/Puerto Rico/8/1934 (H1N1). The five genes encoding the remaining internal proteins and the nonstructural protein may be derived from any of A/Bangkok/1/1979 (H3N2), A/Brazil/11/1978 (H1N1), A/England/42/1972 (H3N2), A/Puerto Rico/8/1934 (H1N1), A/Texas/36/1991 (H1N1), or A/equine/Prague/1/1956 (H7N7).

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/Texas/36/1991 (HA) x A/equine/Prague/1/1956 (NA) x A/Puerto Rico/8/1934 (H1N7).

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

Packaging/Storage:

NR-3573 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 F34: A/Texas/36/1991 (HA) x A/equine/Prague/1/1956 (NA) x A/Puerto Rico/8/1934 (H1N7), NR-3573."

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/bmbli5/index.htm.

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References:

1. <https://www.beiresources.org/Portals/2/Flu-archiveDocs/F34.doc>
2. <https://www.beiresources.org/Flu-archive.aspx>
3. <https://www.beiresources.org/FluVirusCatalog.aspx>
4. <https://www.beiresources.org/Portals/2/Flu-archiveDocs/F76.doc>
5. <https://www.beiresources.org/Portals/2/Flu-archiveDocs/F58.doc>

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