

Kilbourne F176: A/Shanghai/11/1987 (HA, NA) x A/Puerto Rico/8/1934 (H3N2), Medium Yield, Reassortant X-99

Catalog No. NR-3504

Derived from NIAID Catalog No. V-331-0E4908

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Contributor:

National Institutes 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/Shanghai/11/1987 (HA, NA) x A/Puerto Rico/8/1934 (H3N2) (Kilbourne F176; X-99)¹⁻³

Comments: This medium-yielding reassortant was derived from unselected A/Shanghai/11/1987 (H3N2)^{1,4} seed, in contrast with X-99a (Kilbourne F178; NR-3505) which was derived in a separate reassortment event from a high-yielding clone of A/Shanghai/11/1987 (H3N2) and A/Puerto Rico/8/1934 (H1N1).^{4,5} The phenotypic distinction between X-99a and X-99 has been ascribed to an isoleucine for serine substitution at position 186 of the hemagglutinin protein.⁵

Material Provided:

Each vial contains approximately 1 mL of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs infected with medium yield reassortant influenza A virus, A/Shanghai/11/1987 (HA, NA) x A/Puerto Rico/8/1934 (H3N2).

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

Packaging/Storage:

NR-3504 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: 10- 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 F176: A/Shanghai/11/1987 (HA, NA) x A/Puerto Rico/8/1934 (H3N2), Medium Yield, Reassortant X-99, NR-3504."

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/F176.doc
2. <http://www.flu-archive.org/>
3. http://www.flu-archive.org/search/results.pl?search_string=&join_type=and
4. Kilbourne, E. D., et al. "Influenza A Virus Haemagglutinin Polymorphism: Pleiotropic Antigenic Variants of A/Shanghai/11/87 (H3N2) Virus Selected as High Yield Reassortants." *J. Gen.Virol.* 74 (1993): 1311-1316. PubMed: 8336120.
5. http://www.flu-archive.org/data_sheets/F178.doc

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