

Kilbourne F177: A/Shanghai/11/1987 (HA, NA) x A/Puerto Rico/8/1934 (H3N2), Reassortant-Mutant X-99 I-

Catalog No. NR-3487

Derived from NIAID Catalog No. V-331-0E5003

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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-Mutant: A/Shanghai/11/1987 (HA, NA) x A/Puerto Rico/8/1934 (H3N2) (Kilbourne F177; X-99 I-)¹⁻³

Parent: X-99 (Kilbourne F176; BEI Resources NR-3504), a medium-yielding reassortant derived from unselected A/Shanghai/11/1987 (H3N2) seed and A/Puerto Rico/8/1934 (H1N1). It is distinct from the high-yielding reassortant X-99a (Kilbourne F178; BEI Resources NR-3505), derived in a separate reassortment event from a pre-screened, high-yielding stock of A/Shanghai/11/1987 (H3N2) and A/Puerto Rico/8/1934 (H1N1). These two reassortants differ in binding affinity to antibody and to non-specific inhibitor, as well as antigenicity and yield.⁴

Comments: X-99 I- is an inhibitor-resistant escape mutant derived from X-99 (Kilbourne F176, BEI Resources NR-3504) by egg passage in the presence of normal horse serum (NHS). X-99C (Kilbourne F180, BEI Resources NR-3511) is an exact control for X-99 I-. X-99C was derived by passage of X-99 in the absence of NHS.⁴

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/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-3487 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 F177: A/Shanghai/11/1987 (HA, NA) x A/Puerto Rico/8/1934 (H3N2), Reassortant-Mutant X-99 I-, NR-3487."

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/bmbI5/index.htm.

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References:

1. http://www.flu-archive.org/data_sheets/F177.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.

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