Kilbourne F133: A/New Jersey/11/1976 (HA) x A/Puerto Rico/8/1934 (NA) (H1N1), Low (L) Yield, Reassortant/Mutant X-53 (CL) – PR8(2) H^2P4 (L)

Catalog No. NR-3476

Derived from NIAID Catalog No. V-331-0E4370

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/Mutant: A/New Jersey/11/1976 (HA) x A/Puerto Rico/8/1934 (NA) (H1N1) [Kilbourne F133; X-53 (CL) – PR8(2) H^2P4 (L)][1-3]
Parents: X-53 (CL)-2 (H1N1) and A/Puerto Rico/8/1934 (H1N1)
Comments: NR-3476 is a low (L) yield back-revertant of a previously isolated high (H) yield mutant of a reassortant of X-53 (CL)-2 and A/Puerto Rico/8/1934 (H1N1).[1,4] X-53 (CL)-2 was derived by cloning and passage of X-53 (Kilbourne F128; BEI Resources NR-3664), which is A/New Jersey/11/1976 (HA, NA) x A/Puerto Rico/8/1934 (H1N1).[5] The HA gene of NR-3476 is definitively derived from influenza A/New Jersey/11/1976 (H1N1), a human isolate recovered during the 1976 swine flu epidemic at Fort Dix, NJ. All other genes are from A/Puerto Rico/8/1934 (H1N1). The derivation and properties of various A/New Jersey/11/1976 (H1N1) reassortants, as well as cloned derivatives, mutants, and re-reassortants thereof, have been described in detail.[4,6,7] The change from H to L phenotype is associated with a single amino acid change in the HA protein.

Material Provided:

Each vial contains approximately 1 mL of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs infected with reassortant/mutant influenza A virus, A/New Jersey/11/1976 (HA) x A/Puerto Rico/8/1934 (NA) (H1N1), Low (L) Yield.

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

Packaging/Storage:

NR-3476 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 F133: A/New Jersey/11/1976 (HA) x A/Puerto Rico/8/1934 (NA) (H1N1), Low (L) Yield, Reassortant/Mutant X-53 (CL) – PR8(2) H^2P4 (L), NR-3476."

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.

Disclaimers:

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References:

1. http://www.flu-archive.org/data_sheets/F133.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., W. Gerhard and C. W. Whitaker. "Monoclonal Antibodies to the Hemagglutinin Sa Antigenic Site of A/PR/8/34 Influenza Virus Distinguish Biologic Mutants of Swine Influenza Vrus." Proc. Natl. Acad. Sci. USA. 80 (1983): 6399-6402. PubMed: 6194531.
5. http://www.flu-archive.org/data_sheets/F128.doc
6. Kilbourne, E. D. "Genetic Dimorphism in Influenza Viruses: Characterization of Stably Associated Hemagglutinin Mutants Differing in Antigenicity and Biological Properties." Proc. Natl. Acad. Sci. USA. 75 (1978): 6258-6262. PubMed: 282644.
7. Both, G. W., C. H. Shi and E. D. Kilbourne. "Hemagglutinin of Swine Influenza Virus: A Single Amino Acid Change Pleiotropically Affects Viral Antigenicity and Replication." Proc. Natl. Acad. Sci. USA. 80 (1983): 6996-7000. PubMed: 6580621.

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