Product Information Sheet for NR-3600

Kilbourne F37: A/New Jersey/11/1976 (HA) x A/Puerto Rico/8/1934 (NA) (H1N1)

Catalog No. NR-3600

Derived from NIAID Catalog No. V-331-0E5476

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: A/New Jersey/11/1976 (HA) x A/Puerto Rico/8/1934 (NA) (H1N1) (Kilbourne F37)[1-3]
Parents: A/New Jersey/11/1976 (H) (H1N1) and A/Puerto Rico/8/1934 (H1N1)
Comments: NR-3600 is an antigenic hybrid reassortant virus derived from a high yield (H) mutant of influenza A virus, A/New Jersey/11/1976 (H1N1), a human isolate recovered during the 1976 swine flu epidemic at Fort Dix, NJ.[4] The parental mutant virus (Kilbourne F7) is available as BEI Resources NR-3598.[5] The non-selectively egg-passaged wild type virus (Kilbourne F9) is available as BEI Resources NR-3595.[6] Three other antigenic hybrids that share the $H1_{A/New\ Jersey/11/1976}$ $N1_{A/Puerto\ Rico/8/1934}$ phenotype with NR-3600 are also available (Kilbourne F131, BEI Resources NR-3517; Kilbourne F141, BEI Resources NR-3518; Kilbourne F142, BEI Resources NR-3484).[7,8,9] Nucleotide sequencing at BEI Resources of a portion of the matrix (M) gene (RNA 7) from NR-3600 indicates that the M gene is derived from A/Puerto Rico/8/1934 (H1N1). The derivation of the five genes encoding the remaining internal proteins and the nonstructural protein has not been determined genotypically.

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/New Jersey/11/1976 (HA) x A/Puerto Rico/8/1934 (NA) (H1N1).

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

Packaging/Storage:

NR-3600 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 F37: A/New Jersey/11/1976 (HA) x A/Puerto Rico/8/1934 (NA) (H1N1), NR-3600."

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/F37.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. "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.
5. http://www.flu-archive.org/data_sheets/F7.doc
6. http://www.flu-archive.org/data_sheets/F9.doc
7. http://www.flu-archive.org/data_sheets/F131.doc
8. http://www.flu-archive.org/data_sheets/F141.doc
9. http://www.flu-archive.org/data_sheets/F142.doc

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