SUPPORTING INFECTIOUS DISEASE RESEARCH

Kilbourne F27:

A/turkey/Kansas/4880/1980 (HA, NA) x A/Puerto Rico/8/1934 (H1N1), H negative

Catalog No. NR-3470

Derived from NIAID Catalog No. V-331-0E4151

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:

<u>Virus Classification</u>: *Orthomyxoviridae*, *Influenzavirus A* Species: Influenza A virus

- <u>Reassortant</u>: A/turkey/Kansas/4880/1980 (HA, NA) x A/Puerto Rico/8/1934 (H1N1), H negative (Kilbourne F27)¹⁻³
- Parents: A/turkey/Kansas/4880/1980 (H1N1), H negative, and X-31 (H3N2)
- The donor of the hemagglutinin and Comments: neuraminidase genes of NR-3470 is a derivative of influenza A virus, A/turkey/Kansas/4880/1980 (H1N1) (Kilbourne F26; BEI Resources NR-3473), which is a virus of swine antigenic phenotype isolated from a turkey in the course of a natural epizootic.^{4,5,6} As was the case with human isolates of swine phenotype, low- (L) and high-yield (H) HA mutants could be isolated from the wild type parent with the use of selective antibody. The parental virus used in the generation of NR-3470 was isolated from a turkey challenge¹ and is non-reactive with monoclonal antibody that specifically recognizes the H type HA.^{1,7} X-31 F108; BEI Resources NR-3483) (Kilbourne is A/Aichi/2/1968 (HA, NA) x A/Puerto Rico/8/1934 (H3N2),⁸ and has been shown to contain only the HA and NA genes from A/Aichi/2/1968 (H3N2). Since these were replaced by the HA and NA genes of the A/turkey/Kansas/4880/1980 (H1N1), H negative parent, NR-3470 does not contain any genes from A/Aichi/2/1968 (H3N2).

Material Provided:

Each vial contains approximately 1 mL of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs infected with H negative reassortant influenza A virus, A/turkey/Kansas/4880/1980 (HA, NA) x A/Puerto Rico/8/1934 (H1N1).

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

Packaging/Storage:

NR-3470 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:

<u>Host</u>: 9- to 11-day-old SPF embryonated chicken eggs <u>Infection</u>: 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 F27: A/turkey/Kansas/4880/1980 (HA, NA) x A/Puerto Rico/8/1934 (H1N1), H negative, NR-3470."

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. <u>Biosafety in</u> <u>Microbiological and Biomedical Laboratories</u>. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see <u>www.cdc.gov/biosafety/publications/bmbl5/index.htm</u>.

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References:

- 1. <u>https://www.beiresources.org/Portals/2/Flu-archiveDocs/</u> <u>F27.doc</u>
- 2. <u>https://www.beiresources.org/Flu-archive.aspx</u>
- 3. https://www.beiresources.org/FluVirusCatalog.aspx
- Hinshaw, V. S., et al. "Swine Influenza-Like Viruses in Turkeys: Potential Source of Virus for Humans?" <u>Science</u> 220 (1983): 206-208. PubMed: 6298942.
- Kilbourne, E. D., et al. "Hemagglutinin Polymorphism as the Basis for Low- and High-Yield Phenotypes of Swine Influenza Virus." <u>Proc. Natl. Acad. Sci. U.S.A.</u> 85 (1988): 7782-7785. PubMed: 3174662.
- 6. <u>https://www.beiresources.org/Portals/2/Flu-archiveDocs/</u> F24.doc
- 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." <u>Proc. Natl.</u> <u>Acad. Sci. USA</u>. 80 (1983): 6399-6402. PubMed: 6194531.
- 8. <u>https://www.beiresources.org/Portals/2/Flu-archiveDocs/</u> <u>F108.doc</u>

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