SUPPORTING INFECTIOUS DISEASE RESEARCH

## Kilbourne F169:

# A/turkey/Massachusetts/3740/1975 (HA) x A/Aichi/2/1968 (NA) x A/Puerto Rico/8/1934 (H6N2), Reassortant X-88

### Catalog No. NR-3589

Derived from NIAID Catalog No. V-331-0E5434

# 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

Reassortant: A/turkey/Massachusetts/3740/1975 (HA) x A/Aichi/2/1968 (NA) x A/Puerto Rico/8/1934 (H6N2) (Kilbourne F169; X-88)<sup>1-3</sup>

Parents: X-31 (H3N2) and X-76 (H6N1)

<u>Comments</u>: NR-3589 was developed by crossing two previously derived influenza A virus reassortants. The X-76 parent carries the H6 HA gene from A/turkey/Massachusetts/3740/1975 (H6N2) and the N1 NA gene from A/India/6263/1980 (H1N1),<sup>1,4</sup> while the X-31 parent (Kilbourne F108; BEI Resources NR-3483) is A/Aichi/2/1968 (HA, NA) x A/Puerto Rico/8/1934 (H1N1).<sup>5</sup> The gene segments encoding the internal virion proteins and the nonstructural protein are derived from A/Puerto Rico/8/1934 (H1N1).<sup>1,6</sup>

#### **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/turkey/Massachusetts/3740/1975 (HA) x A/Aichi/2/1968 (NA) x A/Puerto Rico/8/1934 (H6N2).

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

#### Packaging/Storage:

NR-3589 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
- <u>Effect</u>: 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 F169: A/turkey/Massachusetts/3740/1975 (HA) x A/Aichi/2/1968 (NA) x A/Puerto Rico/8/1934 (H6N2), Reassortant X-88, NR-3589."

#### 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>http://www.flu-archive.org/data\_sheets/F169.doc</u>
- 2. http://www.flu-archive.org/
- <u>http://www.flu-archive.org/search/results.pl?search\_string=&join\_type=and</u>
- Gallagher, M., et al. "Isolation of Immunogenic Neuraminidases of Human Influenza Viruses by a Combination of Genetic and Biochemical Procedures." <u>J.</u> <u>Clin. Mircobiol.</u> 20 (1984): 89-93. PubMed: 6205018.
- 5. http://www.flu-archive.org/data\_sheets/F108.doc
- Brett, I., J. Werber and E. D. Kilbourne. "Rapid Confirmation by RFLP of Transfer to Vaccine Candidate Reassortant Viruses of the Principal 'High Yield' Gene of Influenza A Viruses." <u>J. Virol. Methods</u> 100 (2002): 133-140. PubMed: 11742660.

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