

**Kilbourne F39:  
A/Beijing/353/1989 (HA) x A/Puerto  
Rico/8/1934 (NA) (H3N1)**

**Catalog No. NR-3646**

Derived from NIAID Catalog No. V-331-0E5534

**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/Beijing/353/1989 (HA) x A/Puerto  
Rico/8/1934 (NA) (H3N1) (Kilbourne F39)<sup>1-3</sup>

Parents: A/Beijing/353/1989 (H3N2) and A/Puerto  
Rico/8/1934 (H1N1)

Comments: Influenza A virus, A/Beijing/353/1989 (H3N2)  
was isolated from a human in China in 1989.

**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/Beijing/353/1989 (HA) x A/Puerto Rico/8/1934 (NA) (H3N1).

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

**Packaging/Storage:**

NR-3646 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 F39: A/Beijing/353/1989 (HA) x A/Puerto

Rico/8/1934 (NA) (H3N1), NR-3646."

**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/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

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**References:**

1. <https://www.beiresources.org/Portals/2/Flu-archiveDocs/F39.doc>
2. <https://www.beiresources.org/Flu-archive.aspx>
3. <https://www.beiresources.org/FluVirusCatalog.aspx>

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