

**Influenza A Virus, A/Puerto Rico/8-MC/1934 (H1N1)**

**Catalog No. NR-29022**

**For research use only. Not for use in humans.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Virus Classification: *Orthomyxoviridae, Influenzavirus A*

Species: Influenza A virus

Strain/Isolate: A/Puerto Rico/8-MC/1934 (H1N1)

Original Source: Influenza A virus, A/Puerto Rico/8-MC/1934 (H1N1) is a mouse-adapted strain of influenza A virus, A/Puerto Rico/8/1934 (H1N1) that was produced in Madin-Darby canine kidney (MDCK) cells using reverse genetics.<sup>1,2</sup> This strain is the progenitor of the antigenic drift variants described by Hensley, et al.<sup>2</sup> The MDCK cell-grown virus was passaged once in embryonated chicken eggs prior to deposit to BEI Resources.

Comments: Sequence information is available for influenza A virus, A/Puerto Rico/8-MC/1934 (H1N1) at the [Influenza Research Database](#). This virus was originally deposited to BEI Resources as influenza A virus, A/Puerto Rico/8-34-MC/2010 (H1N1), but subsequently named A/Puerto Rico/8-MC/1934 (H1N1) by the NIAID Influenza Genome Sequencing Consortium.

**Material Provided:**

Each vial contains approximately 1 mL of pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs infected with influenza A virus, A/Puerto Rico/8-MC/1934 (H1N1).

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

**Packaging/Storage:**

NR-29022 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 to confirm viability prior to inoculation

Incubation: 2 days at 35°C in a humidified chamber

Effect: Hemagglutination activity using allantoic fluid from infected embryonated chicken eggs and chicken red blood cells

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Influenza A Virus, A/Puerto Rico/8-MC/1934 (H1N1), NR-29022.”

**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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Yewdell, J. W., Personal Communication.

- Hensley, S. E., et al. "Hemagglutinin Receptor Binding Avidity Drives Influenza A Virus Antigenic Drift." Science 326 (2009): 734-736. PubMed: 19900932.

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