

# Influenza A Virus, A/Puerto Rico/8-9NMC1/1934 (H1N1)

Catalog No. NR-29023

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/8-9NMC1/1934 (H1N1); deposited as A/Puerto Rico/8-34-9NMC1/2010 (H1N1)

Original Source: Influenza A virus, A/Puerto Rico/8-9NMC1/1934 (H1N1) was isolated from mouse lung tissue after nine passages of a mouse-adapted strain of influenza A virus, A/Puerto Rico/8/1934 (H1N1) in immunologically naïve outbred Swiss mice.<sup>1</sup>

Comments: The parental virus stock was produced in Madin-Darby canine kidney (MDCK) cells using reverse genetics. Serial passage was initiated by direct intranasal infection with MDCK supernatant. Lungs were homogenized two days after infection and the homogenates used to infect the next group of mice. No mutations were detected in the hemagglutinin gene following serial passage in naïve mice. Sequence information is available for influenza A virus, A/Puerto Rico/8-9NMC1/1934 (H1N1) at the [Bacterial and Viral Bioinformatics Resource Center](#).

This virus was originally deposited to BEI Resources as influenza A virus, A/Puerto Rico/8-34-9NMC1/2010 (H1N1), but subsequently named A/Puerto Rico/8-9NMC1/1934 (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/8-9NMC1/1934 (H1N1).

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

## Packaging/Storage:

NR-29023 was packaged aseptically in 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/8-9NMC1/1934 (H1N1), NR-29023."

## 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 (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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**References:**

1. 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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