

SUPPORTING INFECTIOUS DISEASE RESEARCH

# **Product Information Sheet for NR-29032**

# Influenza A Virus, A/Puerto Rico/8-CV5/1934 (H1N1)

## Catalog No. NR-29032

# For research use only. Not for human use.

### **Contributor:**

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### Manufacturer:

**BEI Resources** 

### **Product Description:**

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

Species: Influenza A virus

<u>Strain</u>: A/Puerto Rico/8-CV5/1934 (H1N1); deposited as A/Puerto Rico/8-34-CV5/2010 (H1N1)

Original Source: Influenza A virus, A/Puerto Rico/8-CV5/1934 (H1N1) is a monoclonal antibody escape mutant of influenza A virus, A/Puerto Rico/8/1934 (H1N1). The escape mutant was selected by incubation of parental virus with an over-neutralizing dose of monoclonal antibody (designated "C" by the contributor) that recognizes the influenza A virus hemagglutinin. Incubation was followed by growth of the non-neutralized virus fraction at limiting dilution in the allantois on shell (AOS) culture system. Virus was re-cloned twice by growth at limiting dilution in the absence of antibody, first in the AOS culture system and then in the allantoic cavity of embryonated chicken eggs. The specific amino acid change in the hemagglutinin protein associated with antibody escape mutant CV5 has been described (GenPept: ADX99680).

Comments: Sequence information is available for influenza A virus, A/Puerto Rico/8-CV5/1934 (H1N1) at the Influenza Research Database. The virus was originally deposited to BEI Resources as influenza A virus, A/Puerto Rico/8-34-CV5/2010 (H1N1), but subsequently named A/Puerto Rico/8-CV5/1934 (H1N1) by the NIAID Influenza Genome Sequencing Consortium. Please note that the depositor's original nomenclature was used on the product label.

### **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-CV5/1934 (H1N1).

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

## Packaging/Storage:

NR-29032 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>: 10- 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 without CO<sub>2</sub>

<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: Influenza A Virus, A/Puerto Rico/8-CV5/1934 (H1N1), NR-29032."

## 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/bmbl5/index.htm.

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## References:

- 1. J. W. Yewdell, personal communication.
- Caton, A. J., et al. "The Antigenic Structure of the Influenza Virus A/PR/8/34 Hemagglutinin (H1 Subtype)." Cell 31 (1982): 417-427. PubMed: 6186384.
- Hensley, S. É., et al. "Hemagglutinin Receptor Binding Avidity Drives Influenza A Virus Antigenic Drift." <u>Science</u> 326 (2009): 734-736. PubMed: 19900932.

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