

Influenza A Virus, A/Jiangxi-Donghu/346/2013 (HA, NA) x A/Puerto Rico/8/1934 (H10N8)

Catalog No. NR-49439

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Virus Classification: *Orthomyxoviridae, Influenzavirus A*

Species: Influenza A virus

Reassortant: A/Jiangxi-Donghu/346/2013 (HA, NA) x A/Puerto Rico/8/1934 (H10N8)

Preparation: NR-49439 was produced using plasmid-based reverse genetics.¹ The reassortant virus contains 6 internal genes from A/Puerto Rico/8/1934 (H1N1) and the HA and NA genes from A/Jiangxi-Donghu/346/2013 (H10N8). The virus was rescued in 293T cells, passaged once in embryonated chicken eggs, plaque purified in MDCK cells, and finally grown again in eggs.

Comments: Influenza A virus, A/Jiangxi-Donghu/346/2013 (H10N8) was isolated from a human in Nanchang city, Donghu district, Jiangxi Province, China on December 4, 2013.² Sequence information is available for influenza A virus, A/Jiangxi-Donghu/346/2013 (H10N8) at the [GISAID EpiFlu™ Database](#). Sequence information is available for an independently isolated virus from the same patient at the [Influenza Research Database](#). The deduced amino acid sequence of the hemagglutinin gene of influenza A virus, A/Jiangxi-Donghu/346/2013 (H10N8) indicates avian-like receptor binding preference and low pathogenic potential in poultry.²

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/Jiangxi-Donghu/346/2013 (HA, NA) x A/Puerto Rico/8/1934 (H10N8).

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

Packaging/Storage:

NR-49439 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: Influenza A Virus, A/Jiangxi-Donghu/346/2013 (HA, NA) x A/Puerto Rico/8/1934 (H10N8), NR-49439.”

Biosafety Level: 2 Enhanced

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.

Biosafety Level 2 facilities with enhanced practices and procedures are recommended for research and production activities utilizing reassortant viruses carrying the internal genes from A/Puerto Rico/8/1934 and the surface genes from avian-origin influenza viruses isolated from human infections. ATCC® treats these viruses as Biosafety Level 3 material for purposes of packaging for safe shipment.

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References:

1. Wohlbold, T. J., A. Hirsch, and F. Krammer. “An H10N8 Influenza Virus Vaccine Strain and Mouse Challenge Model Based on the Human Isolate *A/Jiangxi-Donghu/346/13*.” *Vaccine* 33 (2015): 1102-1106. PubMed: 25604801.
2. Chen, H., et al. “Clinical and Epidemiological Characteristics of a Fatal Case of Avian Influenza A H10N8 Virus Infection: A Descriptive Study.” *Lancet* 383 (2014): 714-721. PubMed: 24507376.

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