

Influenza A Virus, A/Shanghai/1/2013 (HA, NA) x A/Puerto Rico/8/1934 (H7N9)

Catalog No. NR-44078

For research use only. Not for human use.

Contributor:

Peter Palese, Ph.D., Florian Krammer, Ph.D., and Rong Hai, Ph.D., Departments of Medicine and Microbiology, Icahn School of Medicine at Mount Sinai, One Gustave L. Levey Place, New York, New York, USA

Manufacturer:

BEI Resources

Product Description:

Virus Classification: *Orthomyxoviridae, Influenzavirus A*

Species: Influenza A virus

Reassortant: A/Shanghai/1/2013(HA, NA) x A/Puerto Rico/8/1934 (H7N9)

Preparation: NR-44078 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/Shanghai/1/2013 (H7N9). 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/Shanghai/1/2013 (H7N9) was isolated from a human in Shanghai Municipality, China on February 26, 2013.² Sequence information is available for influenza A virus, A/Shanghai/1/2013 (H7N9) at the [GISAID EpiFlu™ Database](http://www.gisaid.org).

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/Shanghai/1/2013 (HA, NA) x A/Puerto Rico/8/1934 (H7N9).

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

Packaging/Storage:

NR-44078 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/Shanghai/1/2013 (HA, NA) x A/ Puerto Rico/8/1934 (H7N9), NR-44078.”

Biosafety Level: 3

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.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

The Wisconsin Alumni Research Foundation ("WARF") owns intellectual property including patents, such as US 8,715,940, which may read on use of NR-44078. Any commercial use of this material may require a license from WARF. Please contact WARF at licensing@warf.org or 608 263-2500 for further information.

References:

1. Schickli, J. H., et al. "Plasmid-Only Rescue of Influenza A Virus Vaccine Candidates." Philos. Trans. R. Soc. Lond. B Biol. Sci. 356 (2001): 1965-1973. PubMed: 11779399.
2. Gao, R. et al. "Human Infection with a Novel Avian-Origin Influenza A (H7N9) Virus." N. Engl. J. Med. 368 (2013): 1888-1897. PubMed: 23577628.

ATCC® is a trademark of the American Type Culture Collection.

