

Influenza A Virus, A/Georgia/T51700/2012 (H1N1)pdm09

Catalog No. NR-42940

For research use only. Not for human use.

Contributor:

Anice C. Lowen, Ph.D., Department of Microbiology and Immunology, Emory University, Atlanta, Georgia, USA

Manufacturer:

BEI Resources

Product Description:

Virus Classification: *Orthomyxoviridae, Influenzavirus A*

Species: Influenza A virus

Strain: A/Georgia/T51700/2012 (H1N1)pdm09

Original Source: Influenza A virus, A/Georgia/T51700/2012 (H1N1)pdm09 was isolated from a human in Atlanta, Georgia, USA on February 1, 2012.¹

Comments: Sequence information is available for influenza A virus, A/Georgia/T51700/2012 (H1N1)pdm09 at the [Influenza Research Database](http://www.ncbi.nlm.nih.gov/INFLUENZA/).

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from Madin-Darby Canine Kidney (MDCK) cells (ATCC® CCL-34™) infected with influenza A virus, A/Georgia/T51700/2012 (H1N1)pdm09.

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

Packaging/Storage:

NR-42940 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: MDCK cells (ATCC® CCL-34™)

Growth Medium: Eagle's Minimal Essential Medium containing Earle's Balanced Salt Solution, 2 mM L-glutamine, 1 mM sodium pyruvate, and 1500 mg per mL sodium bicarbonate, supplemented with 0.225% bovine serum albumin and 2.0 µg per mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin

Infection: Cells should be 100% confluent

Incubation: 1 to 7 days at 33°C and 5% CO₂

Cytopathic Effect: Cell sloughing and rounding

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Influenza A Virus, A/Georgia/T51700/2012 (H1N1)pdm09, NR-42940."

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.

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.

References:

- Seladi-Schulman, J., J. Steel, and A. C. Lowen. "Spherical Influenza Viruses have a Fitness Advantage in Embryonated Eggs, while Filament-Producing Strains are Selected *In Vivo*." *J Virol*. 87 (2013): 13343-13353. PubMed: 24089563.

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

