

Influenza A Virus, A/Georgia/M5081/2012 (H1N1)

Catalog No. NR-42939

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: A/Georgia/M5081/2012 (H1N1)

Original Source: Influenza A virus, A/Georgia/M5081/2012 (H1N1) 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/M5081/2012 (H1N1) at the [Bacterial and Viral Bioinformatics Resource Center](http://www.ncbi.nlm.nih.gov/genbank/flu/).

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/M5081/2012 (H1N1).

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

Packaging/Storage:

NR-42939 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: 3 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/M5081/2012 (H1N1), NR-42939."

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmb15/index.htm.

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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.

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