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

Catalog No. NR-42940

For research use only. Not for use in humans.

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Manufacturer:
BEI Resources

Product Description:
Virus Classification: *Orthomyxoviridae*, *Influenzavirus A*
Species: Influenza A virus
Strain/Isolate: 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 Bacterial and Viral Bioinformatics Resource Center.

Material Provided:
Each vial contains approximately 1.0 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: Madin-Darby canine kidney cells (MDCK; ATCC® CCL-34™)
Growth Medium: Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, 2 mM L-glutamine, 1 mM sodium pyruvate, and 1500 mg/mL sodium bicarbonate, supplemented with 0.225% bovine serum albumin and 1.0 µg/mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin, or equivalent. Lot 62795204 freeze media contains 2.0 µg/mL TPCK-trypsin.
Infection: Cells should be 100% confluent
Incubation: 2 to 7 days at 33°C or 37°C and 5% CO_2
Cytopathic Effect: Cell rounding and sloughing

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 (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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References:
1. 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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