

Influenza A Virus, A/Denver/1/57 (H1N1)**Catalog No. NR-4229**

(Derived from ATCC® VR-546™)

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Product Description:Virus Classification: *Orthomyxoviridae, Influenzavirus A*Species: Influenza A virusStrain/Isolate: A/Denver/1/57 (H1N1)Original Source:¹ Human isolate from epidemic in Colorado, 1957Comments: Influenza A virus, A/Denver/1/57 (H1N1) was deposited at ATCC® by Marion T. Coleman, Ph.D., World Health Organization International Influenza Center for the Americas, National Communicable Disease Center, Atlanta, Georgia. The complete genomic sequence of influenza A/Denver/1/57 (H1N1) has been determined (GenBank: CY008988 to CY008995).²**Material Provided:**

Each vial contains approximately 1 mL of pooled allantoic fluid from specific-pathogen free (SPF) embryonated chicken eggs infected with influenza A virus, A/Denver/1/57 (H1N1).

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

Packaging/Storage:

NR-4229 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: 10-day-old SPF embryonated chicken eggsInfection: Embryonated chicken eggs must be candled for viability prior to inoculationIncubation: 1–3 days at 35°C in a humidified chamber without CO₂Effect: Hemagglutination activity using 0.5% chicken red blood cells**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Influenza A Virus, A/Denver/1/57 (H1N1), NR-4229."

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, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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References:

1. Jensen, K. E., F. L. Dunn, and R. Q. Robinson. "Influenza, 1957: A Variant and the Pandemic." Prog. Med. Virol. 1 (1958): 165–209. PubMed: 13579008.
2. Spiro, D., et al. "The NIAID Influenza Genome Sequencing Project." *Unpublished*.
3. Li, J., S. Chen, and D. H. Evans. "Typing and Subtyping Influenza Virus Using DNA Microarrays and Multiplex Reverse Transcriptase PCR." J. Clin. Microbiol. 39 (2001): 696–704. PubMed: 11158130.
4. Buonagurio, D. A., et al. "Evolution of Human Influenza A Viruses over 50 Years: Rapid, Uniform Rate of Change in NS Gene." Science 232 (1986): 980–982. PubMed: 2939560.

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