

# A

## Human Influenza A/PR/8/34 (H1N1) Purified Virus

Catalog Number: 10-210-500

Lot Number: C0216

Product Description: Human Influenza A/PR/8/34 (H1N1) virus purified from infected chicken embryo allantoic fluid.

Unit Size: 0.5 mg

Fill Volume: 1.3 mL

Suspending Buffer: Dulbecco's Phosphate Buffered Saline (DPBS), pH 7.4

### QUALITY CONTROL DATA

Sterility Tests: Bacteria, yeasts, and fungi were not detected (USP-NF). Mycoplasma was not detected by MycoAlert™ Mycoplasma Detection Kit (Lonza, LT07).

Protein Concentration: 0.41 mg/mL determined by Pierce BCA protein assay using BSA standard. Alternative methods for determining protein concentration may give different values.

Virus Particle Count (VPC)  
by TEM:  $5.3 \times 10^{11}$  vp/mL

TCID<sub>50</sub> Titer: 10<sup>9.0</sup> TCID<sub>50</sub>/mL  
Influenza A is titrated in MDCK cells over a period of 7 days with endpoint determination by cytopathic effect (CPE) and hemagglutination assay of culture supernatant.

Hemagglutination Assay  
Titer: 102,400 HAU/mL using chicken RBCs

### PRODUCT DETAILS

Shipping and Storage: This product is shipped frozen on dry ice. **Store at -70°C upon receipt.** Avoid multiple freeze-thaw cycles as product degradation may result.

Recommendations: Upon thawing, centrifuge the vial for a few seconds to remove residual droplets from the lid.

Safe Handling Recommendation: This preparation of Human Influenza A is a **BIOHAZARDOUS** material containing **ACTIVE VIRUS** and should be handled in accordance with biosafety guidelines defined in the BMBL, NIH-CDC HHS publication No. (CDC) 21-1112.

References: 1. McDevitt, J., et al. Role of absolute humidity in the inactivation of influenza viruses on stainless steel surfaces at elevated temperatures. Applied and Environmental Microbiology 2010; 76: 3943-3947.

2. Fabian, P., et al. An optimized method to detect influenza virus and human rhinovirus from exhaled breath and the airborne environment. Journal of Environmental Monitoring 2009; 11: 314-317.

3. Fabian, P., et al. Airborne influenza virus detection with four aerosol samplers using molecular and infectivity assays: considerations for a new infectious virus aerosol sampler. Indoor Air 2009; 19: 433-441.

4. Clarke, M. O. H., 2'-substituted carba-nucleoside analogs for antiviral treatment. FPO 2013.

5. Chase, B. A., et al. Evaluation of biological sample preparation for immunosignature-based diagnostics. Clinical and Vaccine Immunology 2012; 19: 352-358.

This product is for research use only.  
Not for use in diagnostic procedures.

  
Quality Control

07-13-2015

Date

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**CERTIFICATE OF ANALYSIS**