SUPPORTING INFECTIOUS DISEASE RESEARCH

H1 Hemagglutinin (HA) Protein with C-Terminal Histidine Tag from Influenza Virus, A/St. Petersburg/27/2011 (H1N1)pdm09, Recombinant from Baculovirus

Catalog No. NR-41637

This reagent is the tangible property of the U.S. Government.

Product Description: A recombinant form of the H1 hemagglutinin (HA) protein from influenza virus A/St. Petersburg/27/2011 (H1N1)pdm09 containing a C-terminal histidine tag was produced by baculovirus infection of *Trichoplusia ni* insect larvae and purified by standard chromatographic methods.

Lot: 61223219

Manufacturing Date: 06DEC2012

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE (Coomassie Blue Densitometry)	HA bands (HA0, HA1, HA2) account for > 90% of total density	HA bands (HA0, HA1, HA2) account for 99% of total density (Figure 1)
Concentration by Bicinchoninic Acid Protein Assay	Report results	0.53 mg per mL
Final Product Quantity per vial	0.1 mg (± 10%) per vial	0.1 mg (± 10%) per vial
Hemagglutination Titer with 0.5% Chicken Red Blood Cells	Report results	16384 ¹
Western Blot Anti-histidine monoclonal antibody ²	Report results	Reactive (Figure 2)
Demonstration of Protein Glycosylation	Size reduction of protein observed on SDS-PAGE when treated with de- glycosylating enzyme N-glycosidase (PNGaseF)	Size reduction of protein observed on SDS-PAGE when treated with PNGaseF (Figure 3)
Filtration	0.22 µm filtered	0.22 µm filtered
Bioburden	Report results	< 1 colony-forming unit per mL
Endotoxin Content	Report results	< 0.5 EU per mL

¹Highest dilution of protein that showed hemagglutination activity ²Novagen[®] 70796-4 (IgG₁)

Date: 14 MAY 2013

)crothy C. Young Signature:

Title:

Technical Manager, BEI Authentication or designee

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Certificate of Analysis for NR-41637

