

**H1 Hemagglutinin (HA) Protein from Influenza Virus, A/California/07/2009 (H1N1)pdm09, Recombinant from Baculovirus**

**Catalog No. NR-44074**

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

**Product Description:** The H1 hemagglutinin (HA) protein from influenza virus A/California/07/2009 (H1N1)pdm09 is a full-length glycosylated recombinant protein that was produced in *expresSF+*<sup>®</sup> insect cells using a baculovirus expression vector system.<sup>1</sup> The recombinant H1 HA protein was purified using conventional chromatographic techniques.

**Lot: 61941877**

**Manufacturing Date: 26MAR2013**

TEST	SPECIFICATIONS	RESULTS
<b>SDS-PAGE (Coomassie Blue Densitometer Scan)</b>	Report results	HA0 band accounts for > 90% of total density
<b>Protein Concentration by Bicinchoninic Acid Protein Assay</b>	Report results	617 µg per mL (MAR2013)
<b>Functional Activity</b>		
Hemagglutination titer using 0.5% chicken red blood cells	Report results	1:320
Hemagglutination inhibition (HI) assay <sup>2</sup> using polyclonal antiserum to 16 HA subtypes	Report results	Specific for H1 HA subtype <sup>3</sup>
HI titers <sup>2</sup> using polyclonal antiserum to H9 HA subtype A/California/04/2009 (H1N1)pdm09 goat antiserum	Report results	1:160
A/California/04/2009 (H1N1)pdm09 ferret antiserum	Report results	1:320
HI titers <sup>2</sup> using monoclonal antibody to H9 HA subtype A/California/04-2/2009 (H1N1)pdm09 antibody	Report results	1:12800
A/California/04-9/2009 (H1N1)pdm09 antibody	Report results	1:6400
<b>Sterility</b>	0.22 µm filter-sterilized	0.22 µm filter-sterilized
<b>Endotoxin</b>	Report results	< 1.25 EU per mL

<sup>1</sup>U.S. Patent Numbers 5,762,939 and 6,103,526

<sup>2</sup>Serum samples were incubated overnight with receptor-destroying enzyme and heated for 30 minutes at 56°C.

<sup>3</sup>Low level reactivity (HI titer 1:40) was observed with antisera to other HA subtypes

**Date:** 01 MAY 2014

**Signature:** *Dorothy C. Young*

**Title:** Technical Manager, BEI Authentication or designee

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