

**H5 Hemagglutinin (HA) Protein from Influenza Virus, A/Vietnam/1203/2004 (H5N1), Recombinant from baculovirus**

**Catalog No. NR-660**

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

**Product Description:** Recombinant H5 hemagglutinin (HA) protein from influenza virus A/Vietnam/1203/2004 (H5N1) was produced in Sf9 insect cells using a baculovirus expression vector system<sup>1</sup> and was purified using conventional chromatographic techniques.

**Lot: 4146578**

**Manufacturing Date<sup>2</sup>: 30MAR2004**

TEST	SPECIFICATIONS	RESULTS
<b>SDS-PAGE (Coomassie Blue densitometer scan)</b>	Report results	HA bands (HA0, HA1, HA2) account for > 90% of total density
<b>Concentration by Bicinchoninic Acid Protein Assay<sup>3</sup></b>	Report results	138 µg/mL (27MAY2005)
<b>Functional Activity</b> Hemagglutination assay Hemagglutination inhibition (HI) assay HI and ELISA assays	Report results Specific to H5 HA subtype Reactive within H5 HA subtype	Active Specific to H5 HA subtype Reactive within H5 HA subtype
<b>Microbial Content</b>	0.2 micron filter sterilized	0.2 micron filter sterilized
<b>Sterility (post-vialing; 21-day incubation)</b> Harpo's HTYE broth <sup>4</sup> , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO <sub>2</sub>	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
<b>Endotoxin Content (Limulus Amoebocyte Lysate assay)</b>	< 0.1 EU endotoxin per µg protein	< 0.01 EU endotoxin per µg protein

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

<sup>2</sup>Note: The manufacturing date indicated on the vial is the deposit date.

<sup>3</sup>Pierce Biotechnology, Inc.

<sup>4</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

**Date:** 24 JAN 2014

**Signature:**



**Title:**

Technical Manager, BEI Authentication or designee

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