

H9 Hemagglutinin (HA) Protein with C-Terminal Histidine Tag from Influenza Virus, A/turkey/Wisconsin/1/1966 (H9N2), Recombinant from Baculovirus

Catalog No. NR-43782

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

Product Description:

A recombinant form of the H9 hemagglutinin (HA) protein from influenza A virus, A/turkey/Wisconsin/1/1966 (H9N2), was produced in Sf9 insect cells using a baculovirus expression vector system and was purified by nickel affinity chromatography. NR-43782 includes additional plasmid encoded residues at both the N-terminal and C-terminal, as well as T4 foldon trimerization domain, thrombin cleavage site and C-terminal octa-histidine tag.

Lot: 70050532

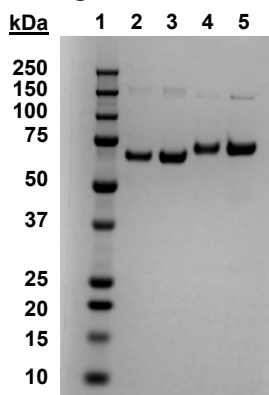
Manufacturing Date: 25APR2022

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE Analysis	Protein band of interest represents > 90% of total staining intensity	Dominant band of ~ 70 kDa accounts for > 96% of total staining intensity (Figure 1)
Concentration by Bradford Assay Bovine Serum Albumin (BSA; standard)	Report results	0.30 mg/mL
Final Product Amount per vial Volume per vial	Report results Report results	72 µg 240 µL
Functional Activity Hemagglutination activity 0.5% chicken red blood cells 0.5% turkey red blood cells Identification by Western Blot Analysis Monoclonal anti-histidine tag ¹ Polyclonal anti-H9 HA ²	Reactive Reactive Reactive Reactive	Positive Positive Reactive (Figure 2) Reactive (Figure 3)
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	107.3 EU/mg
Filtration	0.45 µm sterile-filtered	0.45 µm sterile-filtered

¹Using a 1:2500 dilution of mouse monoclonal anti-histidine tag (R&D systems MAB050) as primary antibody and a 1:1000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems HAF007) as secondary antibody.

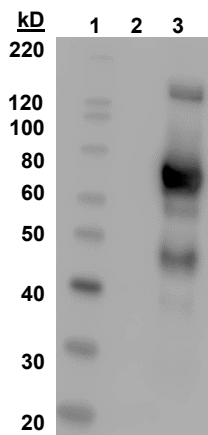
²Using a 1:5000 dilution of rabbit polyclonal anti-H9N2 HA (Genetex GTX127305) as primary antibody and a 1:1000 dilution of HRP-conjugated rabbit IgG (R&D Systems HAF008) as secondary antibody.

Figure 1: SDS-PAGE



Lane 1: Precision Plus Protein™ Standard
Lane 2: BSA, 0.5 µg
Lane 3: BSA, 1.0 µg
Lane 4: NR-43782, 0.5 µg
Lane 5: NR-43782, 1.0 µg

Figure 2: Western Blot with Monoclonal Anti-Histidine Tag

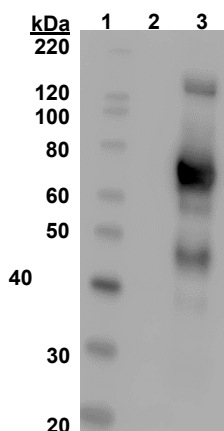


Lane 1: MagicMark™ XP Protein Standard (5 µL)

Lane 2: BSA, 0.5 µg

Lane 3: NR-43782, 0.5 µg

Figure 3: Western Blot with Polyclonal Anti-H9 HA



Lane 1: MagicMark™ XP Protein Standard (5 µL)

Lane 2: BSA, 0.5 µg

Lane 3: NR-43782, 0.5 µg

/Sonia Bjorum Brower/

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Technical Manager or designee, ATCC Federal Solutions

14 SEP 2023

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