

H3 Hemagglutinin (HA) Protein with C-Terminal Histidine Tag from Influenza Virus, A/Wisconsin/67/2005 (H3N2), Recombinant from Baculovirus

Catalog No. NR-49237

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

Product Description:

A recombinant form of the H3 hemagglutinin (HA) protein from influenza A virus, A/Wisconsin/67/2005 (H3N2) containing a C-terminal histidine tag was produced in Sf9 insect cells using a baculovirus expression vector system and was purified by nickel affinity chromatography.

Lot: 70052281

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	Protein bands of interest account for > 95% of total staining intensity (Figure 1)
Identification by Western Blot Analysis Monoclonal anti-histidine tag Polyclonal anti-influenza A virus, A/Wisconsin/67/2005 (H3N2)	Reactive Reactive	Reactive (Figure 2) ¹ Reactive (Figure 3) ²
Concentration by Bradford Assay Bovine Serum Albumin (BSA; standard)	Report results	249 µg per mL
Final Product Quantity per vial Volume per vial	Report results Report results	112 µg 450 µL
Functional Activity by Hemagglutination 0.5% chicken red blood cells 0.5% turkey red blood cells	Report results Report results	Positive Positive
Endotoxin Content Limulus Amoebocyte Lysate Assay	Report results	< 20.08 EU per mg
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹Using a 1:1000 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 1:1000 dilution of ferret polyclonal anti-A/Wisconsin/67/2005 [ImmuneTech IT-003-Ref-H3 (Wis/2005)] as primary antibody and a 1:1000 dilution of HRP-conjugated goat anti-rabbit IgG (R&D Systems HAF008) as secondary antibody

Figure 1: SDS-PAGE Analysis

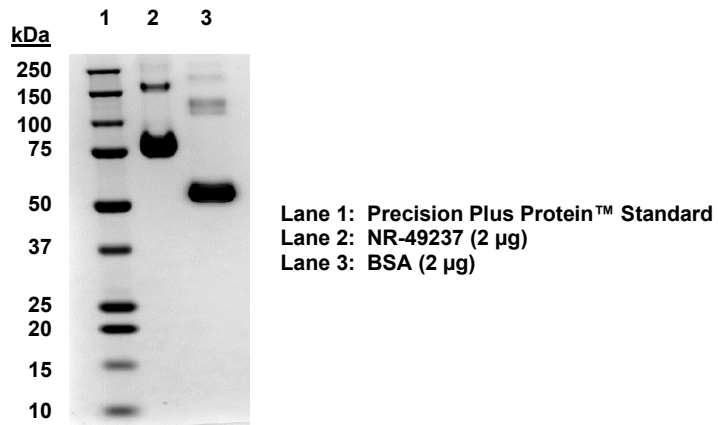
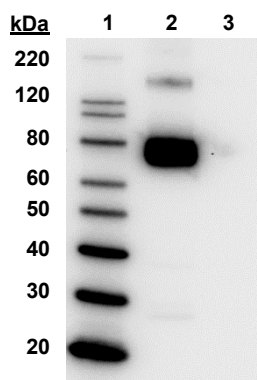
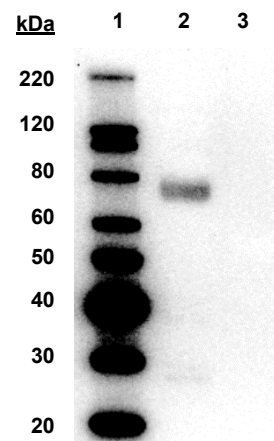


Figure 2: Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-49237 (0.5 µg)
Lane 3: BSA (0.5 µg)

Figure 3: Western Blot with Polyclonal Anti-Influenza A Virus



Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-49237 (0.5 µg)
Lane 3: BSA (0.5 µg)

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Technical Manager or designee, ATCC Federal Solutions

19 SEP 2022

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