

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

## Catalog No. NR-49237

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## 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: 70081309**

**Manufacturing Date: 11MAR2026**

| TEST                                                                                                                      | SPECIFICATIONS                                                        | RESULTS                                                                             |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Appearance</b>                                                                                                         | Report results                                                        | Clear and colorless                                                                 |
| <b>SDS-PAGE Analysis</b>                                                                                                  | Protein band of interest represents > 90% of total staining intensity | Dominant band of ~ 80 kDa accounts for 92.1% of total staining intensity (Figure 1) |
| <b>Concentration by Bradford Assay<sup>1</sup></b>                                                                        | Report results                                                        | 0.32 mg/mL                                                                          |
| <b>Final Product</b><br>Quantity per vial<br>Volume per vial                                                              | Report results<br>Report results                                      | 96 µg<br>300 µL                                                                     |
| <b>Identification by Western Blot</b><br>Monoclonal anti-histidine tag <sup>2</sup><br>Polyclonal anti-H3 HA <sup>3</sup> | Reactive<br>Reactive                                                  | Reactive (Figure 2A)<br>Reactive (Figure 2B)                                        |
| <b>Functional Activity by Hemagglutination<sup>4</sup></b><br>0.5% chicken red blood cells<br>0.5% turkey red blood cells | Report results<br>Report results                                      | Positive<br>Positive                                                                |
| <b>Endotoxin Content (Limulus Amoebocyte Lysate Assay)</b>                                                                | Report results                                                        | < 15.57 EU/mg                                                                       |
| <b>Filtration</b>                                                                                                         | Report results                                                        | 0.45 µm sterile-filtered                                                            |

<sup>1</sup>Using bovine serum albumin (BSA) as a standard.

<sup>2</sup>Using 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

<sup>3</sup>Using a 1:3000 dilution of goat polyclonal anti-H3 HA (BEI Resources NR-3118) as primary antibody and a 1:1000 dilution of HRP-conjugated anti-goat IgG (R&D Systems HAF109) as secondary antibody

<sup>4</sup>HA titer 4.01x10<sup>-3</sup> mg/mL for 0.5% chicken RBCs at a 1:40 dilution and 5.01x10<sup>-3</sup> mg/mL at a 1:320 dilution for 0.5% turkey RBCs.

# Certificate of Analysis for NR-49237

**Figure 1: SDS-PAGE Analysis**

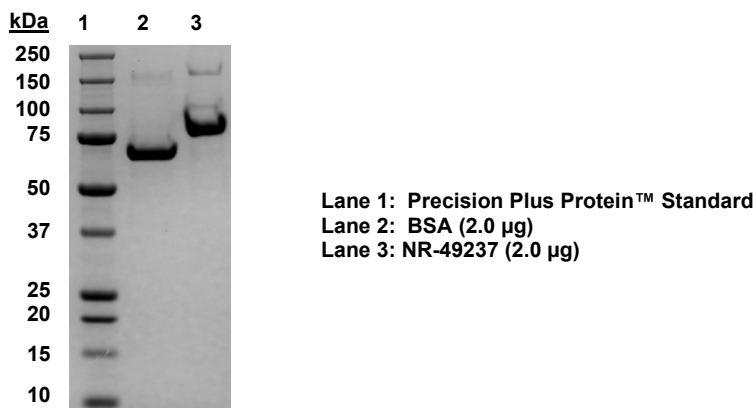
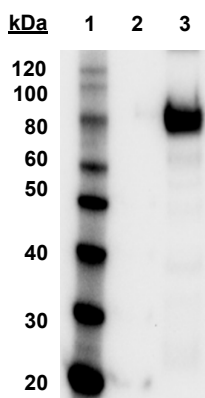


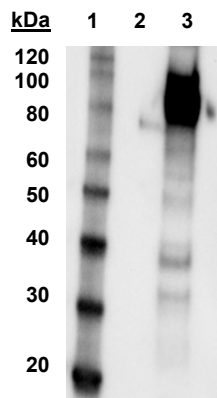
**Figure 2: Western Blot Analysis**

**A: Monoclonal Anti-Histidine Tag**



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

**B: Polyclonal Anti-H3**



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

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Technical Manager or designee, ATCC Federal Solutions

24 APR 2026

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