Certificate of Analysis for NR-60634

N1 Neuraminidase (NA) Protein from Influenza A Virus, A/Cambodia/2310209/2023 (H5N1), Recombinant from Baculovirus

Catalog No. NR-60634

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

Product Description:

A recombinant form of the N1 Neuraminidase (NA) protein from Influenza A Virus, A/Cambodia/2310209/2023 (H5N1) with a histidine tag, was produced in Sf9 insect cells using a baculovirus expression system and purified by ion exchange and affinity chromatography. This item was manufactured and subjected to quality control testing by St. Jude Children's Research Hospital (SJCRH), Memphis, Tennessee, USA.

Lot: 70077174 **Manufacturing Date[1]: 27MAR2025**

TEST	SPECIFICATIONS	RESULTS
Appearance	Report results	Opalescent
SDS-PAGE Analysis	Report Results	Major bands of ~64, ~ 55, ~45 and ~39 kDa (Figure 1)
Identification by Western Blot[2]	Reactive	Reactive (Figure 2)
Concentration by Bicinchoninic Acid Assay[3] Bovine Serum Albumin (BSA; standard)	Report results	1.25 mg/mL
Final Product Quantity per vial Volume per vial	 Report results Report results	 313 µg 250 µL
Functional Activity Neuraminidase activity in a fluorescent enzymatic assay[4]	Report results	Reactive
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered
Endotoxin	Report results	≤ 0.10 EU/mL

[1]Dispensed July 17, 2025, at BEI Resources

[2]Using a 1:2000 dilution of anti-NA polyclonal goat antiserum G.1037 (2025) [against N1 NA protein derived from A/Cambodia/2310209/2023 (H5N1) virus] as primary antibody.

[3]Using bovine serum albumin (BSA) as a standard with Pierce BCA Protein Assay Kit (Thermo 23227).

[4]Using serial dilutions of NR-60634 and 2'-(4-methylumbelliferyl)-α-D-N-acetylneuraminic acid (4-MUNANA), as described in Wetherall, N. T., et al. "Evaluation of Neuraminidase Enzyme Assays Using Different Substrates to Measure Susceptibility of Influenza Virus Clinical Isolates to Neuraminidase Inhibitors: Report of the Neuraminidase Inhibitor Susceptibility Network." J. Clin. Microbiol. 41 (2003): 742-750. PubMed: 12574276.

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Figure 1: SDS-PAGE Analysis

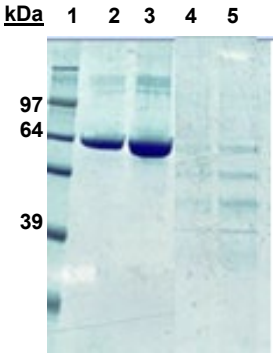
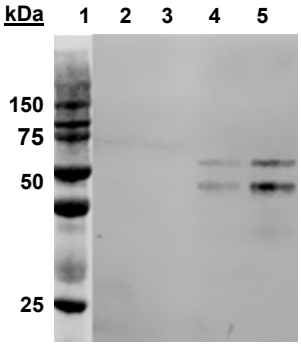


Figure 2: Western Blot Analysis



Lane 1: Molecular weight markers
Lane 2: BSA (1.0 µg)
Lane 3: BSA (2.5 µg)
Lane 4: NR-60634 (1.0 µg)
Lane 5: NR-60634 (2.5 µg)

/Sonia Bjorum Brower/
Sonia Bjorum Brower 09 OCT 2025
Technical Manager or designee, ATCC Federal Solutions

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