Certificate of Analysis for NR-42002

N1 Neuraminidase (NA) Protein with N-Terminal Histidine Tag from Influenza Virus, A/Puerto Rico/8/1934 (H1N1), Recombinant from Baculovirus

Catalog No. NR-42002

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/Puerto Rico/8/1934 (H1N1) containing an N-terminal histidine tag was produced in High Five™ insect cells using a baculovirus expression vector system and partially purified by nickel affinity chromatography, and vialed in 25 mM phosphate buffer (pH 8.0) with 250 mM NaCl, 250 mM imidazole, and 50% glycerol.

Lot: 61759226 **Manufacturing Date: 17JUN2013**

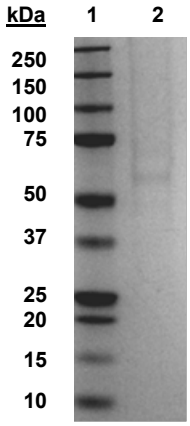
TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE Analysis	Protein band of interest represents > 90% of total staining intensity	The dominant band of ~ 50 kDa accounts for ~ 50% of total staining intensity (Figure 1)
Concentration by Bicinchoninic Acid Protein Assay[1]	Report results	5.84 µg/mL
Vial Contents		
Quantity per vial	Report results	1.75 µg
Volume per vial	Report results	300 µL
Identification by Western Blot		
Monoclonal anti-histidine tag[2]	Reactive	Reactive (Figure 2A)
Polyclonal anti-N1 NA[3]	Reactive	Reactive (Figure 2B)
Functional Activity		
Neuraminidase activity in a fluorescent enzymatic assay[4]	Report results	~120 relative fluorescence units/hour/µg protein
Filtration	0.45 µm filter-sterilized	0.45 µm filter-sterilized

[1]Pierce Protein Research Products (Catalog. No. 23235)
[2]R&D Systems (Catalog. No. MAB050) (IgG1) (1:1000 dilution)
[3]BEI Resources NR-3136, Polyclonal Anti-Influenza Virus N1 Neuraminidase (NA), A/New Jersey/8/1976 (H1N1), (antiserum, Goat) (1:1000 dilution)
[4]Using serial dilutions of NR-42002 and 0.15 mM 2'-(4-methylumbelliferyl)-α-D-N-acetylneuraminic acid (4-MUNANA), Sigma (Cat. No. M8639), 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.

BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

Certificate of Analysis for NR-42002

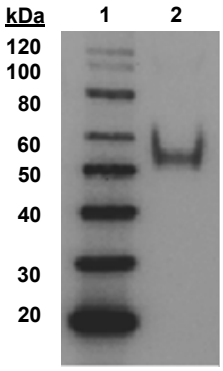
Figure 1: SDS-PAGE Analysis



Lane 1: Precision Plus Protein™ Standard
Lane 2: NR-42002 (20 µL)

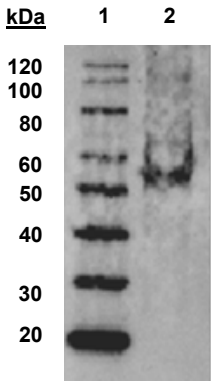
Figure 2: Western Blot Analysis

A: Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard
Lane 3: NR-42002 (20 µL)

B: Polyclonal Anti-NA



Lane 1: MagicMark™ XP Protein Standard
Lane 3: NR-42002 (20 µL)

/Sonia Bjorum Brower/
Sonia Bjorum Brower 04 NOV 2025
Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.
You are authorized to use this product for research use only. It is not intended for human use.

Support Provided by NIAID

BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898