

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.

Lot: 61759226 Manufacturing Date: 17JUN2013

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
Purity by SDS-PAGE Densitometry Scan	Protein band of interest represents ~ 50% of total staining intensity	Protein band of ~ 55 kDa accounts for ~ 50% of total staining intensity (Figure 1)
Identification by Western Blot Analysis Polyclonal anti-N1 NA ¹ Monoclonal anti-histidine tag ²	Reactive Reactive	Reactive (Figure 2) Reactive (Figure 3)
Concentration by Bicinchoninic Acid Protein Assay ³	Report results	5.84 μg/mL
Final Product Quantity per vial Volume per vial	Report results Report results	1.75 μg 300 μL
Functional Activity Neuraminidase activity in fluorescent enzymatic assay	Report results	~120 relative fluorescence units per second per µg protein ⁴
Filtration	0.45 µm filtered	0.45 µm filtered

¹BEI Resources NR-3136, Polyclonal Anti-Influenza Virus N1 Neuraminidase (NA), A/New Jersey/8/1976 (H1N1), (antiserum, Goat) (1:1000 dilution)

Date: 11 MAY 2015

Signature:

BEI Resources Authentication

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.

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You are authorized to use this product for research use only. It is not intended for human use.

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²R&D Systems (Cat. No. MAB050) (IgG1) (1:1000 dilution)

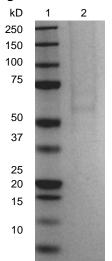
³Pierce Protein Research Products (Cat. No. 23235)

⁴Using 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.



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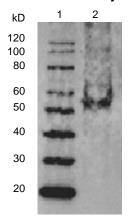
Figure 1: SDS-PAGE



Lane 1: Precision Plus™ Protein Standard

Lane 2: NR-42002, 20 µL

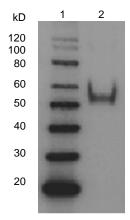
Figure 2: Western Blot with Polyclonal Anti-N1 NA



Lane 1: MagicMark™ XP Protein Standard

Lane 2: NR-42002, 20 µL

Figure 3: Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard

Lane 2: NR-42002, 20 µL

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