

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 *Spodoptera frugiperda* Sf9 cells using a baculovirus expression vector system and purified by nickel affinity chromatography.

Lot: 63195703 Manufacturing Date: 17APR2015

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TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
Purity by SDS-PAGE Densitometry Scan	Protein band of interest represents > 95% of total staining intensity	Protein band of ~ 55 kDa accounts for > 95% 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	9.79 μg per mL
Final Product Quantity per vial Volume per vial	Report results Report results	2.94 μg 300 μL
Functional Activity Neuraminidase activity in fluorescent enzymatic assay	Report results	3.65 x 10 ⁸ relative fluorescence units per hour per mg protein ⁴
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	144 EU per mg
Filtration	0.2 µm filtered	0.2 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: 13 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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²R&D Systems (Cat. No. MAB050) (IgG1) (1:1000 dilution)

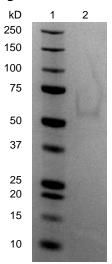
³Pierce Protein Research Products (Cat. No. 23235)

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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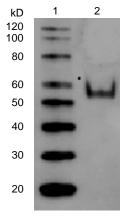
Figure 1: SDS-PAGE



Lane 1: Precision Plus™ Protein Standard

Lane 2: NR-42002, 40 µL

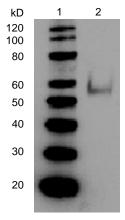
Figure 2: Western Blot with Polyclonal Anti-N1 NA



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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