

Certificate of Analysis for NR-19237

N2 Neuraminidase (NA) Protein with N-Terminal Histidine Tag from Influenza Virus, A/Wisconsin/67/2005 (H3N2), Recombinant from Baculovirus

Catalog No. NR-19237

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

Product Description: A recombinant form of the N2 neuraminidase (NA) protein from influenza virus A/Wisconsin/67/2005 (H3N2) containing an N-terminal histidine tag was produced in Sf9 insect cells using a baculovirus expression vector system and was purified by nickel affinity chromatography.

Lot: 60115425 Manufacturing Date: 20JUL2011

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless, no particulate matter	Clear and colorless, no particulate matter
Purity by SDS-PAGE (Figure 1) and Densitometry Scan	Report results	Dominant band of ~ 55 kDa accounts for > 95% of total staining intensity
Identification by Western Blot Analysis Polyclonal anti-N2 NA ¹ Monoclonal anti-histidine tag ²	Reactive Reactive	Reactive (Figure 2) Reactive (Figure 3)
Concentration by Bicinchoninic Acid Protein Assay ³	Report results	818 µg/mL
Final Product Quantity per vial Volume per vial	Report results Report results	205 μg 250 μL
Functional Activity Neuraminidase activity in fluorescent enzymatic assay	Report results	3 x 10 ⁴ relative fluorescent units per ng ⁴

¹BEI Resources NR-3137

Date: 04 OCT 2011

Signature:

Title: Technical Manager, BEI Authentication or designee

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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Fax: 703-365-2898

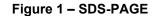
²Clontech (Cat. No. 631212) (IgG_{2a})

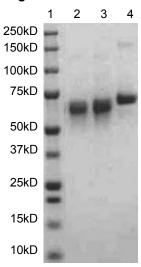
³Pierce Protein Research Products (Cat. No. 23235)

⁴Using 2.05 ng NR-19237 and 0.15 mM 2'-(4-methylumbelliferyI)-α-D-N-acetylneuraminic acid (4-MUNANA), Sigma (Cat. No. M8639) in a one hour assay, 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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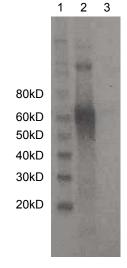




Lane 1: Precision Plus Protein™ All Blue Standards (BioRad 161-0373)

Lane 2: 2 µg NR-19237 Lane 3: 3 µg NR-19237 Lane 4: 2 µg BSA

Figure 2 - Western Blot with Polyclonal Anti-N2 NA

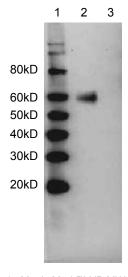


Lane 1: Magic Mark™ XP MW Marker

(Invitrogen™ LC 5602)

Lane 2: 0.5 µg NR-19237 Lane 3: 0.5 µg BSA

Figure 3 - Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: Magic Mark™ XP MW Marker

(Invitrogen™ LC 5602)

Lane 2: 0.5 µg NR-19237 Lane 3: 0.5 µg BSA

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