

Certificate of Analysis for NR-19235

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

Catalog No. NR-19235

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) was produced from NR-42002 lot 61759226 in-process material. The protein was expressed in Sf9 insect cells using a baculovirus expression vector system and the cellular lysate was pelleted. Inclusion bodies from the cellular lysate were purified by nickel affinity chromatography (cOmplete™ His-Tag Resin) under denaturing conditions. The purified protein was refolded by dialysis and filtered. NR-19235 contains the predicted ectodomain coding region of the N1 neuraminidase (NA) protein from influenza A virus, A/Puerto Rico/8/1934 (H1N1) (GenPept: ABD77678) fused to a synthetic gene segment encoding an N-terminal octa-histidine tag followed by a 43 amino acid tetramerization domain from vasodilator-stimulated phosphoprotein (VASP) and a thrombin cleavage site, as described for the 1918 pandemic virus. NR-19235 lot 70041699 was vialed in 50 mM Tris-HCl (pH 8.0), 150 mM NaCl, 10 mM KCl, 1 mM EDTA, 0.5 M arginine, 0.5% Triton X-100 and 1 mM DTT.

Lot: 70041699 Manufacturing Date: 04FEB2021

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE Analysis	Protein band of interest represents > 90% of total staining intensity	Bands of approximately 55 kDa and 110 kDa account for 99.6% of total staining intensity (Figure 1)
Identification by Western Blot Analysis		
Monoclonal anti-histidine tag	Reactive	Reactive (Figure 2) ¹
Polyclonal anti-N1 NA	Reactive	Reactive (Figure 3) ²
Concentration by Bicinchonic Acid Assay		
Bovine Serum Albumin (standard)	Report results	0.75 mg per mL
Final Product		
Quantity per vial	Report results	150 µg
Volume per vial	Report results	200 μL
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	< 6.64 EU per mg
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹Using a 1:1000 dilution of mouse monoclonal anti-histidine tag (R&D Systems MAB050) as primary antibody and a 1:1000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems HAF007) as secondary antibody

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

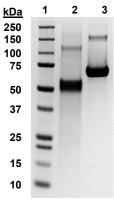
Fax: 703-365-2898

²Using a 1:1000 dilution of goat polyclonal anti-NA (A/New Jersey/08/76) (BEI Resources NR-3136) as primary antibody and a 1:1000 dilution of HRP-conjugated anti-goat IgG (R&D Systems HAF017) as secondary antibody



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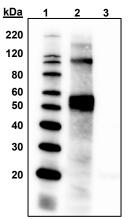
Figure 1: SDS-PAGE Analysis



Lane 1: Precision Plus Protein™ Standard

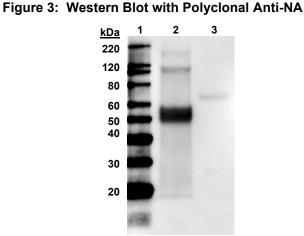
Lane 2: NR-19235, 5 µg Lane 3: BSA, 5 µg

Figure 2: Western Blot with Monoclonal Anti-Histidine Tag



Lane 2: NR-19235, 1 µg Lane 3: BSA, 1 µg

Lane 1: MagicMark™ XP Protein Standard



Lane 1: MagicMark™ XP Protein Standard

Lane 2: NR-19235, 1 µg Lane 3: BSA, 1 µg

/Sonia Bjorum Brower/ Sonia Bjorum Brower

05 SEP 2022

Technical Manager or designee, ATCC Federal Solutions

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