

Certificate of Analysis for NR-51162

Hemagglutinin (HA) Protein from Influenza Virus, B/Malaysia/2506/2004, Recombinant from Baculovirus

Catalog No. NR-51162

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

Product Description: A recombinant form of the hemagglutinin (HA) protein from influenza virus B/Malaysia/2506/2004 consisting of amino acid residues 16 to 548 with a C-terminus octa-histidine tag was produced in Sf9 insect cells using a baculovirus expression vector system and purified by cobalt affinity chromatography.

Lot: 70015732 Manufacturing Date: 22JAN2019

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE Analysis	Protein band of interest represents > 90% of total staining intensity	Protein band of ~ 75 kDa accounts for > 90% of total staining intensity (Figure 1)
Identification by Western blot analysis		
Polyclonal anti-HA (Influenza B)1	Reactive	Reactive (Figure 2)
Monoclonal anti-histidine tag ²	Reactive	Reactive (Figure 3)
Protein Concentration by Bradford	Donort requite	120 ug nor ml
Assay ³	Report results	120 µg per mL
Final Product		
Quantity per vial	Report results	132 μg
Volume per vial	Report results	1100 µL
Functional Activity Hemagglutination activity	Deposit secults	Desition
0.5% chicken red blood cells	Report results	Positive
0.5% turkey red blood cells	Report results	Positive
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	1 – 1000 EU per mg	< 41.67 EU per mg
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹Immune Technology Corp. Cat. No. IT-003-032 Polyclonal Anti-HA (Influenza B) (1:1000 dilution)

BEI Resources

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Tel: 800-359-7370

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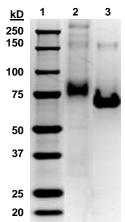
²R&D Systems® Cat. No. MAB050 (IgG1) (1:1000 dilution)

³Using BSA as a standard



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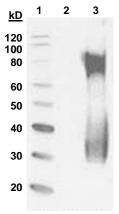
Figure 1: SDS-PAGE Analysis of Recombinant HA Protein (NR-51162)



Lane 1: Precision Plus™ XP Protein Standard

Lane 2: NR-51162, 1.0 μg Lane 3: BSA, 1.0 μg

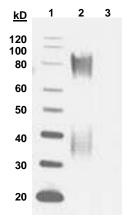
Figure 2: Western Blot with Polyclonal Anti-HA (Influenza B)



Lane 1: MagicMark™ XP Protein Standard

Lane 2: BSA, 1.0 μg Lane 3: NR-51162, 1.0 μg

Figure 3: Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard

Lane 2: NR-51162, 1.0 μg Lane 3: BSA, 1.0 μg

/Heather Couch/ Heather Couch

03 APR 2019

Program Manager or designee, ATCC Federal Solutions

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BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898