

Streptococcus pneumoniae* Family 2, Clade 4 Pneumococcal Surface Protein A (PspA UAB100) with C-Terminal Histidine Tag, Recombinant from *Escherichia coli

Catalog No. NR-51405

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

Product Description:

A recombinant form of the pneumococcal surface protein A (PspA UAB100) from *Streptococcus pneumoniae* (*S. pneumoniae*) Family 2, Clade 4. The recombinant PspA UAB100 containing a C-terminal hexahistidine tag was expressed in *Escherichia coli* BL21(DE3) pLysS and purified by IMAC/Ni⁺⁺ affinity chromatography.

Lot: 70049117

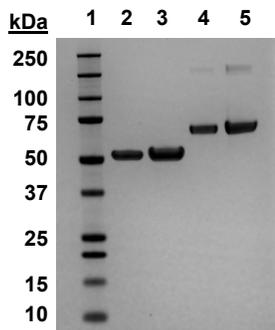
Manufacturing Date: 09FEB2022

TEST	SPECIFICATIONS	RESULTS
Appearance	Report results	Clear and colorless
Molecular Weight Determination by MALDI-MS	Report results	40.768 kDa
SDS-PAGE Analysis¹	Protein band of interest represents > 90% of total staining intensity	Dominant band of ~ 50 kDa accounting for > 95% of total staining intensity (Figure 1)
Protein Concentration by Bicinchoninic Acid Assay	Report results	952 µg per mL
Final Product Amount per vial Volume per vial	Report results Report results	238 µg 0.25 mL
Functional Activity Western Blot Analysis using Anti-His Mab ²	Report results	Positive (Figure 2)
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	21.53 EU per mg
Filtration	0.2 µm sterile filtered	0.2 µm sterile filtered

¹Fusion protein runs high on SDS-PAGE (between 49 kDa and 69 kDa)

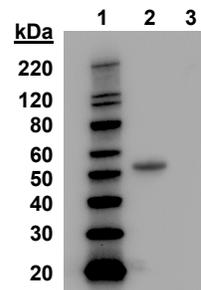
²Using a 1:1000 dilution of mouse monoclonal anti-histidine tag (Takara, Cat. No. 631212) as primary antibody and a 1:1000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems, Cat. No. HAF007) as secondary antibody

Figure 1: SDS-PAGE Analysis of NR-51405



Lane 1: MW Markers
Lane 2: NR-51405 (1 µg)
Lane 3: NR-51405 (2.0 µg)
Lane 4: Positive control, BSA (1 µg)
Lane 5: Positive control, BSA (2.0 µg)

Figure 2: Western Blot Analysis of NR-51405



Lane 1: MW Markers
Lane 2: NR-51405 (0.5 µg)
Lane 3: BSA (0.5 µg)

/Sonia Bjorum Brower/

Sonia Bjorum Brower

18 SEP 2022

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