ProtTech Inc.
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Certificate of Analysis

Recombinant SARS-COV-2 Nucleocapsid protein (N Protein)

Catalog #	**Concentration**
PT-COV-1001	1 mg/mL

Recombinant nucleocapsid protein is produced in E. coli. It contains the natural sequence.

Product Description: The coronavirus nucleocapsid (N Protein) is a structural protein that forms complexes with genomic RNA, interacts with the viral membrane protein during virion assembly and plays a critical role in enhancing the efficiency of virus transcription and assembly.

Synonyms: SARS-COV-2 N Protein

Sequence: SDNGPQNQRN APRITFGGPS DSTGSNQNGE RSGARSKQRR PQGLPNNTAS WFTALTQHGK EDLKFPRGQG VPINTNSSPD DQIGYYRRAT RRIRGGDGKM KDLSPRWYFY YLGTGPEAGL PYGANKDGII WVATEGALNT PKDHIGTRNP ANNAAIVLQL PQGTTLPKGF YAEGSRGGSQ ASSRSSSRSR NSSRNSTPGS SRGTSPARMA GNGGDAALAL LLLDRLNQLE SKMSGKGQQQ QGQTVTKKSA AEASKKPRQK RTATKAYNVT QAFGRRGPEQ TQGNFGDQEL IRQGTDYKHW PQIAQFAPSA SAFFGMSRIG MEVTPSGTWL TYTGAIKLDD KDPNFKDQVI LLNKHIDAYK TFPPTEPKKD KKKKADETQA LPQRQKKQQT VTLLPAADLD DFSKQLQQSM SSADSTQA

Accession #: P0DTC9

Quality control: Verified by Mass Spectrometry analyses.

Purity: >85% by SDS-PAGE gel

Product Source: SARS-COV-2 N Protein was produced in E. coli cells transformed with SARS-COV-2 N protein gene. This product is sterile and does not contain any components of animal origin.

Formulation: Sterile filtered through a 0.2 micron filter in 50% glycerol, 200 mM NaCl, 5 mM beta mercaptoethanol, 10 mM phosphate buffer at pH 7.4

Usage: FOR LABORATORY RESEARCH USE ONLY.

Storage/Stability: Avoid repeated freeze-thaw cycles. 12 months at -20 C to -80 C. 1 month at 2 C to 8 C.

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References:

1. Indwiani Astuti and Ysrafil, “Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2): An overview of viral structure and host response.” Diabetes Metab Syndr. 2020 July-August; 14(4): 407–412.

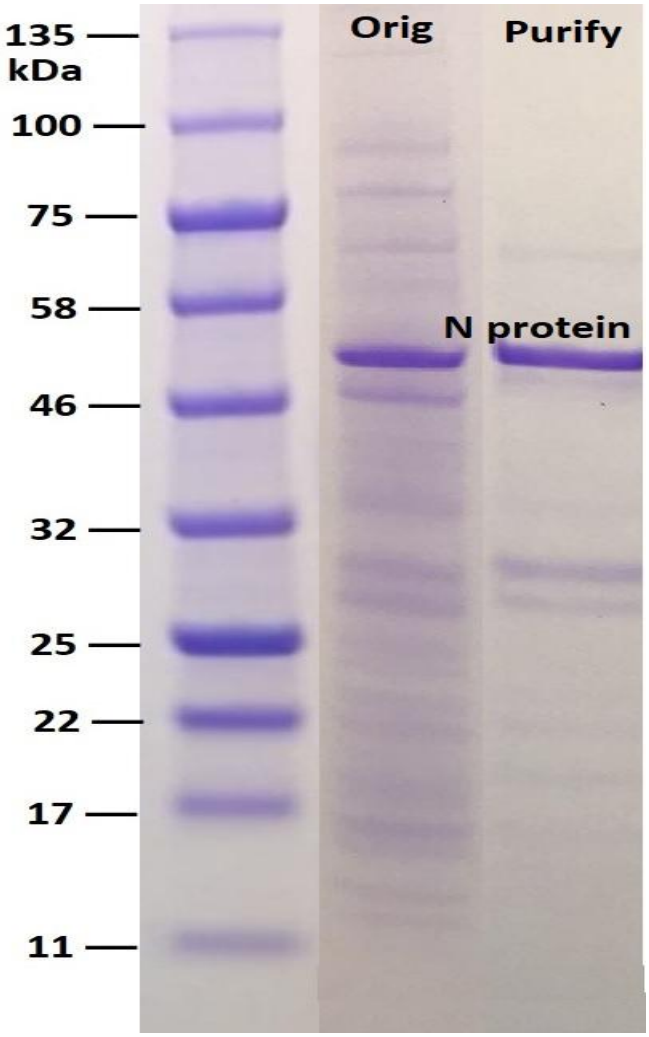

Figure 1. SARS-COV-2 N Protein SDS PAGE gel. Lane 1, protein marker; lane 2, Soluble cell lysate; 3, Purified N Protein.