

# SARS-CoV-2 Nucleocapsid (N) Protein

## Antigen Specification

**Product Number: 46000**

**Description:**

SARS-CoV-2 Nucleocapsid (N) Protein.  
Recombinant antigen for in vitro research and manufacturing use only.

**Immunological function:**

Binds IgG-type/IgM/IgA-type human antibodies.

**Origin:**

Recombinant. Expressed by recombinant baculovirus (*Autographa californica* multiple nuclear polyhedrosis virus; AcMNPV) infection of *Spodoptera frugiperda* Sf9 insect cells.

**Expression construct:**

Full-length cDNA coding for the SARS-CoV-2 Nucleocapsid Protein fused to a deca-histidine purification tag.

**Biochemical tests:**

SDS-PAGE (purity > 80%); Western blot with patient sample.

**Calculated molecular weight:**

47,3 kDa

**Calculated isoelectric point:**

pH 10.07

**Immunological tests/Functionality:**

ELISA, immunodot analyses and line assay analyses with positive/negative serum samples.

**Recommended buffer/storage and handling conditions:**

Recommendations for storage buffer: neutral to slightly alkaline pH and 20% glycerol as cryoprotective agent.  
Storage conditions: -70°C or below.  
Repeated freeze/thaw cycles should be avoided.

Copyright 2021 DIARECT GmbH