

## Datasheet

### SARS-CoV-2 (2019-nCoV) Nucleoprotein / NP ELISA Kit

Product Name	SARS-CoV-2 (2019-nCoV) Nucleoprotein / NP ELISA Kit
Catalogue Number	BSV-ELISA-01
IVD or RUO	RUO
CE Marked	No
Size	96 tests

#### Description:

This SARS-CoV-2 (2019-nCoV) Nucleoprotein / NP ELISA Kit is an enzyme-linked immunosorbent assay for the quantitative measurement of 2019-nCoV CoV Nucleocapsid protein in Serum or Cell supernatant. It contains recombinant 2019-nCoV CoV Nucleocapsid, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use.

#### Product Details:

**Assay Type:** Solid Phase Sandwich ELISA (quantitative)

**Conjugate:** HRP

**Sample type:** Serum, Cell Supernatant

**Sensitivity:** 42.5 pg/mL

**Assay range:** 93.75-6000 pg/mL

**Specificity:** Recognises both recombinant and natural 2019-nCoV CoV Nucleocapsid

**Storage:** Store at +2-8°C

**Shipping:** Ambient temperature

**Regulatory/ Restrictions:** For In vitro laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

## **CoV Nucleocapsid Background Information**

Coronaviruses are enveloped viruses with a positive-sense RNA genome and with a nucleocapsid of helical symmetry. Coronavirus nucleoproteins localize to the cytoplasm and the nucleolus, a subnuclear structure, in both virus-infected primary cells and in cells transfected with plasmids that express N protein. Coronavirus N protein is required for coronavirus RNA synthesis and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is a most abundant protein of coronavirus. During virion assembly, N protein binds to viral RNA and leads to formation of the helical nucleocapsid. Nucleocapsid protein is a highly immunogenic phosphoprotein also implicated in viral genome replication and in modulating cell signaling pathways. Because of the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.

## **Materials Supplied**

1. 96 well microplate coated with Capture Antibody
2. Detection Antibody conjugated to HRP
3. Standards
4. Wash Buffer Concentrate
5. Dilution Buffer Concentrate
6. Color Reagent A
7. Color Reagent B
8. Stop Solution

**Performance Data**

Concentration ( pg/mL)	Zero standard subtracted OD
0	0
93.75	0.032
187.5	0.065
375	0.149
750	0.348
1500	0.681
3000	1.278
6000	2.486

Figure 1. This standard curve for demonstration purposes shows the assay range between 93.75-6000 pg/mL. A standard curve should be generated for each assay.

