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.

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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

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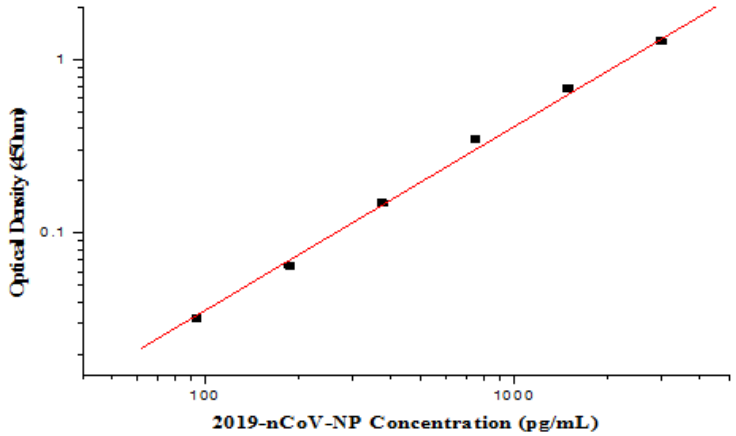
Performance Data

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.



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