

## 90-7005: SARS-CoV-2 Neutralizing Antibodies Detection Kit

**Application :** Functional Assay,ELISA

### Description

Coronaviruses (CoVs) are enveloped non-segmented positive-sense single-stranded RNA viruses and can infect respiratory, gastrointestinal, hepatic and central nervous system of human and many other wild animals. Recently, a new severe acute respiratory syndrome  $\beta$ -coronavirus called SARS-CoV-2 has emerged, which causes an epidemic of acute respiratory syndrome (called coronavirus human disease 2019 or COVID-19). SARS-CoV-2 contains 4 structural proteins, including Envelope (E), Membrane (M), Nucleocapsid (N) and Spike (S), which is a transmembrane protein, composed of two subunits S1 and S2. The S1 subunit contains a receptor binding domain (RBD), which binds to the cell surface receptor Angiotensin-Converting Enzyme 2 (ACE2) present at the surface of epithelial cells, causing mainly infection of human respiratory cells. The SARS-CoV-2 Neutralizing Antibodies Detection Kit contains key reagents required to test the presence of functional neutralizing antibodies against SARS-CoV-2 present in the serum or plasma. It is an easy and fast alternative to the classical neutralization assay using Vero E6 cells. This Detection Kit is based on a colorimetric reaction, which measures the binding of the RBD of the Spike S protein from SARS-CoV-2 to its human receptor ACE2. The presence of neutralizing / blocking antibodies in the samples are detected by reduction of signal indicating the inhibition of the Spike-ACE2 binding.

### Product Info

<b>Amount :</b>	1 X 96 Tests
<b>Content :</b>	1 X 96 well Format (96 tests)
<b>Storage condition :</b>	Please refer to the Manual

### Application Note

This immunoassay kit detects the presence of neutralizing/blocking antibodies in human serum/plasma that inhibit the binding of the SARS-CoV-2 Spike (RBD) protein to its human receptor ACE2.