



## Novel Coronavirus (SARS-CoV-2) Neutralizing Antibodies Test (Competition Up-converting Phosphor Immunochromatographic Technology)

- The neutralizing epitopes of novel coronavirus concentrate on S-RBD, which is the basis of vaccine development;
- Use competition method to test the neutralizing antibody of S-RBD ;
- An ideal alternative method for rapid evaluation of neutralizing antibodies level of Novel Coronavirus (SARS-CoV-2);
- Evaluate the immune effect after vaccination or whether neutralizing antibodies are produced in human body after infection with novel coronavirus;
- Cover all detection targets (IgA, IgM, IgG, etc.);
- The titer range of neutralization antibody can be evaluated by semi quantitative detection;
- Used together with the up-converting phosphor immunoassay analyzer UPT-3A-1800,UPT-3A-1800- mini;
- Room temperature storage.



### Clinical Performance

Sensitivity:98.23%; Specificity:99.19%; Accuracy :98.92%.



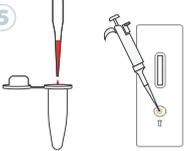
# Novel Coronavirus (SARS-CoV-2) Neutralizing Antibodies Test

(Competition Up-converting Phosphor Immunochromatographic Technology)

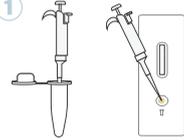


## Test Procedure

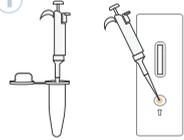
### 1. Peripheral whole blood samples

<p>①</p>  <p>Tear off the disposable alcohol pad, wipe your finger, and dry naturally.</p>	<p>②</p>  <p>Using the lancet, pull out the lid of the lancet, press it on the finger that has been disinfected, and puncture the finger with the lancet.</p>	<p>③</p>  <p>Squeeze out the first drop of whole blood and wipe it off with a cotton swab.</p>	<p>④</p>  <p>Squeeze out the second drop of whole blood, and use a dropper to draw the whole blood above the mark.</p>
<p>⑤</p>  <p>Take 20µL sample (1 drop), mix with 100 µL sample diluent, then take 100 µL diluted sample and add it to the sample well. And then use a cotton swab to stop the bleeding.</p>	<p>⑥</p>  <p>Incubate at 10~30 °C for 15 minutes.</p> <p>15min</p>	<p>⑦</p>  <p>Insert test card into instrument to read    Display accurate concentration</p>	

### 2. Serum and plasma samples

<p>①</p>  <p>Take 10 µL of sample, mix with 100 µL sample diluent, then take 100 µL diluted sample and add it to the sample well.</p>	<p>②</p>  <p>Incubate at 10~30 °C for 15 minutes.</p> <p>15min</p>	<p>③</p>  <p>Insert test card into instrument to read    Display accurate concentration</p>
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### 3. Venous whole blood samples

<p>①</p>  <p>Take 20µL sample (1 drop), mix with 100 µL sample diluent, then take 100 µL diluted sample and add it to the sample well.</p>	<p>②</p>  <p>Incubate at 10~30 °C for 15 minutes.</p> <p>15min</p>	<p>③</p>  <p>Insert test card into instrument to read    Display accurate concentration</p>
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## Clinical Performance

In total, 1208 human samples (serum, plasma, venous whole blood and peripheral whole blood) from 138 vaccinated subjects with the novel coronavirus vaccine, 201 SARS-CoV-2 positive by PCR, 869 control group subjects who never infected with novel coronavirus and never contacted with COVID-19 patients.

The coincidence rate of the venous whole blood samples test results

Assessment system	Reference system		
	Positive(+)	Negative(-)	Total
Positive(+)	333	7	340
Negative(-)	6	862	868
Total	339	869	1208

**Sensitivity:98.23%; Specificity:99.19%; Accuracy :98.92%.**

## Product information

Product name	Test samples	Specifications	Storage conditions
Novel Coronavirus (SARS-CoV-2) Neutralizing Antibodies Test (Competition Up-converting Phosphor Immunochromatographic Technology)	Peripheral whole blood, Venous whole blood, Serum, plasma	40T/Kit 20T/Kit 5T/Kit	4~30 °C